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Notes and News.

During the week the General Purposes Committee recommended to the Pretoria Town Council

A Pretoria Iron
Industry?

Administrator, a draft lease between the
Council and Mr. C. F. Delfos, granting

the latter the right to mine for and dispose of iron, iron ore, iron quartz, and iron-bearing minerals and metals, situate on a portion of the town lands of Pretoria, for a period of twenty years, and in the event of its being legally competent to do so, for further periods of thirty and forty years respectively, be approved and adopted. The recommendation was agreed to by a large majority. It is noteworthy in this connection that an exhaustive report on the iron ores of the Pretoria town lands has lately been prepared by two well-known scientists, and that there is a prospect of the erection of an electric furnace for treating the ores at an early date.

The Secretary of the New Modderfontein G.M. Company has issued the following for the informa-

New Modder tion of shareholders:—Regarding the new plant in course of erection, there appears to be no doubt that the reduction plant will be completed at the end of the year. This, however, cannot be brought into commission until the winder at the circular shaft is crected. After various delays work on the winder is now proceeding under Government repression, but on account of the proportions of continuity

work on the winder is now proceeding under Government permission, but on account of the uncertainty of continuity of the work, coupled with possible delays in shipment and marine loss, the directors cannot state with any certainty when new plant will be at work. Shareholders will be advised when the winder arrives in South Africa.

advised when the winder arrives in South Africa.

* * * *

In its report, the Select Committee on Public Accounts states that it has considered the State Mines Finances. report of the Controller and Auditor-

General on the supplementary agreement entered into between the Government and the Gold Mining Areas (Modderfontein) Consolidated, Limited, by which the profits up to an amount of £250,000 are to be reserved from distribution and applied to capital purposes, the Government share to be treated as a loan repayable at the rate of £10,000 per annum free of interest. The Committee notes that in the opinion of the legal advisers the action of the Government is not in excess of their legal powers, but considers that the alteration of such contracts in favour of the lessees is open to very serious objection, and concurs in the opinion of the Controller and Auditor-General "that the right to divert and re-invest moneys due to revenue should be under Parliamentary control either directly or by an enabling enactment."

The following circular was issued to the shareholders in the Knight Central, Ltd., under date

The Position of June 28th: "The development of Knight Central, Ltd. the area south of the Simmer Dyke has resulted in a total footage driven.

risen and sunk of 23,793 feet, of which 13,602 feet were on reef, and have been sampled, giving an average assay value of 3.6 dwts, over a stoping width of 58 inches. This development work has resulted in exposing 760,700 tons of ore, of which only 56,300 tons are payable, or 7.40 per cent., with a value of 5.85 dwts, over 61 inches. The above development work entailed the following expenditure, viz.: Engine chambers and equipment for two subsidiary shafts, \$36,662. Sinking the shafts and making stations and ore bins, £57,830. Actual development work, £90,200, or a total expenditure of £184,692. During the past five months ended 31st May, 1917, the company has made a loss on working of £1,007, whilst capital expenditure (mostly shaft sinking) has absorbed a further amount of £14,873, thereby

seriously reducing the balance of cash available at 31st Describer last. Having regard to the disappointing results obtained, the extreme improbability of any improvement in the future, and in view of the limited funds at the company's disposal, your directors have decided, on the advice of the Consulting Engineer, to suspend all shaft sinking. and to limit development to the few points where payable values have been exposed. The payable ore will be stoped and milled as long as it is possible to do so profitably, and operations will then be suspended."

The report of the British South Africa Company for the year ended March 31, 1917, states that amalgamation of Northern and Chartered Company Southern Rhedesia was postponed Finances.

owing to the large proportion of the elected members of the Legislative Conneil having voted in the minority. The principal land owning companies expressed themselves in sympathy with the proposals for land settlement after the war. The report says the ordinary administrative work continued steadily, notwithstanding the diminished staff and other difficulties. Imports of merchandise into Southern Rhodesia increased by £553,766, and exports increased by £653,716. Contracts had been concluded between the Company and the Royal Commission for delivery in July, August, and Sentember next of 110,000 bags of maize at about 12s. 9d. per bag f.o.b. Beira. The mineral output was satisfactory, showing an increase of £430 630. The deficit on the administrative account for Southern Rhodesia was £12.062, compared with £95.078. In Northern Rhodesia the deficit on the administrative account was £39.167, compared with £58.026. Revenue exceeds expenditure by £123 366, compared with £97,676. The company's liquid resources in eash and first-class securities at the end of March, 1917, were approximately £1,450,000, compared with £1,265,000 in March, 1916. *

Mr. G. Upton, presiding at the general meeting of the R.N.L.B., last week, predicted a serious shortage of labour. He said: Rhedesian Labour " The authorities concerned are quita Shortage Predicted. unable to state when conditions will

*

allow of our again drawing labour from Northern Rhodesia, Nyasaland, and Portuguese Territory, and without being unduly pessimistic, I think it only right to warn you quite frankly that unless the unexpected happens indications point to a serious shortage of labour in the near future. We simply cannot help these things, and military requirements being of paramount importance, we must accent the position philosophically and with good grace, and do the best we can with the present available labour supply. The Bureau has commenced recruiting operations in the Bechuanaland Protectorate, but in view of the formidable competition of the Transvanl industries. I cannot hold out prospects of any considerable supply from that territory. Still, we are doing all we possibly can, and we are keeping our organisation efficient and intact, so that when we are again allowed to resume operations we can immediately restart the flow of labour to Southern Rhodesia. * *

The report of the Executive Committee for the month of May, 1917, shows that the number of

Rhodesia Chamber natives employed on Southern Rhodesian mines in April shows a doof Mines. crease of 2.167 as compared with the

corresponding month in 1916. The question of maintaining the supply of coal to mines in Southern Rhodesia is engaging the serious attention of the executive. chiefly to a shortage of locomotive power at the present time, due to the war, it is difficult for the railways to provide sufficient haulage for transportation, and the position calls for very careful handling by the authorities. As it was brought recently to the notice of the Chamber that many mine employees still appeared uncertain whether it was their duty to go on active service or remain at their posts. the remarks made by H.H. the Administrator at the Farmers' Dinner in Bulawayo, on the 29th May last, on the

necessity of maintaining the main industries of the country, were circularised to every member. The present practice of the Rhodesia Railways to charge rates on copper ores according to value was under consideration, and it was the opinion of the Executive that a uniform rate should be imposed irrespective of value. It would appear that this is the custom adopted by the South African Railways in regard to these ores.

Of the interests held by the Rhodesia Gold Mining and Investment Company, the Lonely Reef Rhodesia Cold Gold Mining Company is the principal, the company holding at December 31 last Report.

34,296 shares. Its other investments include 43,000 Cam and Motor shares; 13,471 Hay Gold Mining shares; 4,500 United Rhodesia Goldfields shares; and 179,896 Sabi Gold shares, the whole standing in the balance sheet at £234,073. With regard to the Cam and Motor, the financial year of which company ends on June 30, it is pointed out that the disappointing erushing results were due to the fact that large bodies of ore in the leading stopes of the Motor Mine were found on opening up to be considerably below their estimated value. The improvement in the extraction results has been maintained at about 83 per cent., but the increasing occurrence of free gold in the ore will necessitate further additions to the plant to ensure finer grinding and longer evanide treatment than is possible with the present plant. The Bernheim Mine has been let on tribute for a period of three years, and the company during the year received £684 as royalty and rent from this source. Two blocks of claims, 19 in number, in the Inyati district, known as the Huntsman, and situated about 18 miles from the Lonely Mine, have been taken under option. A third block of seven claim adjoining has been pegged in the company's name. The property adjoining the Huntsman has yielded £23,576 from 2,650 tons, or £8 17s. 9d. per ton crushed, which is a recovery of over 2 ozs. per ton. The accounts for 1916 show a net profit of £2,442, which, with the balance of £36 059 brought forward, gives a total of £38,501 to be carried forward to the credit of the profit and loss account.

Formed in 1903 to acquire from the Enterprise Gold Mining Company some 90 claims situated in the The Ciant to Gadzema district of Mashonaland, the Close Down.

Giant Mines of Rhodesia, after a career during which it has distributed among shareholders dividends totalling 1414 per cent., is closing down. Such is the purport of a cablegram to London to the effect that, " owing to the condition of the mine, there is no hope of running the property at a profit, and that instructions have accordingly been given to close down." For some years past the annual yield from the mine has been a steadily diminishing quantity. The company attained its zenith in the matter of production in 1911, for which year 54,246 ozs. were recovered. For 1912, the output was 48,391 ozs.; 1913, 32,881 ozs.; 1914, 15,826 ozs.; 1915, 11,819 ozs.; and 1916, 10,165 ozs. For January this year there was a profit of £334, which in February fell to £104, while for March there was an estimated loss of £1,393, and for April of £1,242. The last dividend paid by the company was Is. per share in 1913. The news of the suspension of mining work had the effect of marking the shares down 25 per cent. to 3s. 9d. When Rhodesian shares were all the fashion in 1909, Giants were as high as £6 10s. The lode was lost below the 6th level in 1911, and since then there have been no important developments. During the latter part of 1914, the company, in conjunction with the London and Rhodesian Mining and Land Company, purchased from the Cam and Motor Company a 50 per cent. interest in 70 claims known as the Cam, Good Shepherd, Petrol, Isis, Lorna Doone, and Jan Ridd, immediately adjoining the Motor mine in the Hartley district. In some quarters the decision to bury the Giant is regarded as being a welcome indication that no more money is to be wasted on his artificial respiration. It is contended that the half interest in the claims acquired in 1914 represents substantially more than the present market price of the shares.

TOPICS OF THE WEEK.

SCIENCE AND NEGLECTED INDUSTRIAL OPPORTUNITIES.

THE awakening of South Africa to its neglected industrial opportunities continues to be the most notable effect of the war observable locally. The major portion of the Presidential address delivered at Stellenbosch, this week, by Professor Orr, before the S.A. Association for the Advancement of Science, was devoted to this subject. Professor Orr shows himself a keen student of industrial progress throughout the country, and his address brings together a notable array of data dealing with the latest developments of the South African industrial re-birth or revival. Naturally he has nothing but praise for the work being done by the newly-formed Scientific and Technical Committee. He points out that the first work of this Committee has been to arrange for a survey of the raw materials of the country, so as to ascertain what is available for active industrial exploitation. The Government is paving the way by investigation and research to show the world what the prospects of industry are, and Professor Orr quotes the Minister of Mines and Industries as saying that "the Government can only see that general conditions as regards tariff and legislation are reasonable and representative." Prof. Orr very reasonably claims that a country which imports annually thirty-eight million pounds worth of merchandise must have great manufacturing possibilities. He admits that manufacturing industries have languished in South Africa, and industrial failures have been many, due to a variety of causes. As one writer plaintively remarks, there has been the usual dissipation of energies; the usual record of a few successes and many failures; and the usual discouragement which seems the natural inheritance of the few people who try to bring South Africa to a realisation of her unique opportunities." Prof. Orr goes on to show that the complaint is often made that South Africa has neglected her opportunities; that she is only now beginning to investigate her resources as regards the adequacy and suitability of raw materials; that, as compared with the other members of the Commonwealth of Nations, she is only now emerging from the stage of academic discussion, and is not yet able to put forward co-ordinated schemes for industrial expansion and development which can be expected to attract capital; and capital is wanted as in other countries. "The history of manufacturing countries," he says, "proves that the industrial system has been built up mainly by private enterprise, and we must look mainly to the individual and the corporation to supply this capital." Professor Orr Professor Orr avers that " no industry can be welcomed as a permanent industry which does not utilise the raw products of the In this connection the absence of a " primary country. iron and steel industry is most keenly felt. All manufacturers using metal are dependent upon the imported article. and although machinery is now being manufactured in South Africa, especially on the Rand, to an extent hitherto considered impossible, this has largely been due to the protection offered by the war, and may possibly be transient. Prof. Orr declares that the importance of the establishm at of an iron and steel industry in South Africa transcends that of every other industry: South Africa can never hope to become a machinery manufacturing country without it. We have the raw materials in coal and ore, but markets will have to be created to keep such an industry going continuously, as it must of necessity do. "The Government," says Prof. Orr, "can help by assisting in the initial stages. and it is to be feared that without some direct special assistance, the prospects are remote. But it can also help indirectly through the railways." A guarantee of Government contracts, at any rate in the initial stages, should surely induce a flow of capital for such an important national industry. A glance at the imports for 1916 shows that, during that year, iron and steel to the value of nearly one and a quarter millions sterling, and machinery to the value of two and one-eighth millions sterling, were imported into the Union. How colossal an iron and steel industry may become is shown by the fact that the output of the United States Steel Corporation reached in 1916 the huge total of nearly fifteen and a half million tons, and we may point to the figures printed in an article on "The Steel Trade after the War" in another part of this issue.

A successful experimental plant, constituting the first electric furnace in South Africa, was erected by the Chamber of Mines during the past year for making steel castings (shoes and dies) from scrap metal, and the manufacture of bar iron, etc., from scrap metal has been carried on for some years in the Transvaal. "Such industries," says Prof. Orr, "have been referred to as bastard industries; primary industries utilising the raw materials are essential. A start was made last month in electrochemical industries, when a factory for the manufacture of carbide was inaugurated on the Rand; but electro-chemical industries in other parts of the world rely mainly upon cheap electricity derived from water power, and it is of the utmost importance in the industrial development of this country that the Government should spare no expense in having the water-power resources of South Africa immediately in-vestigated." Prof. Orr here seems to overlook the fact that coal-generated electricity is likely to be as cheap here as that derived from water-power. Prof. Orr adds that the great mistake in South Africa has been to look too much to the mines. Just as the discovery of the diamond mines saved the Cape Colony from dire financial distress, so we have the President of the Transvas! Chamber of Mines saying, at the last annual meeting of that body, that "the prosperity and, indeed, the whole fabric of the Union is largely based on the mining industry." Prof. Orr continues, "But the mineral wealth of the Transvaal will not last for ever—the gold mines are a diminishing asset. Transvaul dividends amounted in 1916 to over nine million pounds, but the Rand cannot go on indefinitely contributing over 50 per cent. of the total revenue of the Union. We have examples from history to show that, where enlightened action has prevailed, the revenues derived from mineral wealth, instead of being utilised to lighten the burdens of the general tuxpayer, have, to a liberal extent, been devoted to the general development of the country, and the establishment of industries to take the place of the worked-out mines, including of necessity ample provision for education and technical training and research."

Professor Orr referred to the industrial census now being compiled, which, he said, will be awaited with much interest, since, for the first time, we shall be put in possession of the details of the industrial activities of the Union, apart from the already published statistics relating to power. The recent conference of manufacturers at Capetown, described by the Minister of Mines and Industries as "the most important conference that had ever been held in South Africa," and at which a Chamber of Industries was formed, betokens an admirable spirit of co-operation. It is also a hopeful sign of the recognition of the importance of new industries that some of the larger towns in South Africa are offering special facilities for the acquisition of tactory sites and power and water at cost price. Every country is dependent to a greater or less extent on other countries for its raw materials, and we are all familiar with the efforts which are now being made to make the Empire self-supporting as regards raw materials for industries. South Africa must benefit by its inclusion in this scheme; for example, the world's principal source of chrome ore, so valuable in special steel making, is in Rhodesia, and the Prieska district is said to possess the largest deposits of asbestos in the world. Broadly speaking, Professor Orr's conclusions are simply that "greater opportunities for employment are essential; the mines, existing industries, land settlement, afforestation, etc., are not sufficient. South Africa now meets its own requirements in portland cement; the position must be extended in all directions. Λ demand must be created for the 'factory hand,' and this is one of South Africa's greatest needs." These are fairly obvious and familiar truths, and none the less valuable or timely because repeated at a science congress in Stellenbosch.

THE HALF-YEAR'S DIVIDENDS: TRANSVAAL GOLD-PRODUCING COMPANIES.

The following tables show the dividends declared by Transvaal mining companies for the half year ended June 30, together with the notification for the corresponding period of last year for purposes of comparison :

RAND COMPANIES.

						('orr	. Period
		No.				las	t Year.
Company 1) ste.	of	Rate	Capital.	Amount	Rate	Amount
Company .		Div.	0,0	£	£	0	£
Brakpan Mines	June	11	221	760,000	171,000	223	168,750
City Deep		10	224	1,250,000	281,250	225	281.250
Cay & Suburban		35	61	1,360,000	85,000	6}	85,000
	June	8	10 .	950,000	95,000	125	118,750
Con, Main Reef .	lune	18	ō	924,36 (-46,218	6 [57,772
Crown Mines		32	20	940,106	188,212	25	235,026
Durban Roodepoort .		86	5	125,000	6,250	10	12,500
Durban Rood. Deep a		14	23	140,000	11,000	25	11,000
East Rand Prop. Ms.		-		2,445,897		2]	61,148
Ferreira Deep		28	173	989,000	171,500	22]	220,500
Geduld Proprietury		6	5	970,000	-48,500	5	48,500
Geldenhuis Deep	lane	35	124	585,753	73,219	125	73,219
Ginsberg	June	28	5	210,000	10,500	73	15,750
Jupiter		6	3 ?	1,014,200	38,032	5	50,710
Knights Deep		24	5	713.526	37,176	73	55,764
Langlaagte Estate	June	53	5	886,500	44,325	5	14,325
Luipaardsvlei Estate .				472,012		23	11,800
Meyer & Charlton		55	50	200,000	100,000	45	90,000
Modder B			-10	700,000	280,000	371	262,500
Modder Deep			10	500,000	200,000	30	150,000

			No.					Period - t Year.
	Company,	Date	of	Rate	Capital	Amount,	Rate	Amount
	S. dillant.		Div.		£	4.	0' /U	£
	New Goch	Jane	10	5	550,000	27,500	5	27,500
	New Heriot	May	16	30	115,000	31,500	35	40,250
	New Kleinfontein				1,151,540	-=		57,577
	New Modderfontein .	June	22	161	1,400,000	227,500	16}	227,500
	New Primrose ,	June		-	325,000	40/04	5	16,250
	New Unified	June	18	75	250,000	18,750	10	25,000
	Nourse Mines		26	GÎ	827,821	51,739	5	41,391
	Robinson	June	50	33	2,750,000	96,250	1	110,000
	Robinson Deep	June	3	48.	per "A"	100,000	48.	100,000
	•				Share	1	ier "A	k**
							Share	3
	Rose Deep	June	32	12}	700,000	87,500	15	105,000
	Simmer & Jack	June		3 7	3,000,000	112,500	3 }	112,500
	Van Ryn			171	500,000	87,500	173	87,500
	Van Ryn Deep			20	1,196,892	239,378	20	239,378
	Village Deep			7 1	1,060,671	79,551	81	92,809
	Village Main Reef				472,000	47,200	10	47,200
	Witwatersrand				469,625	93,925	25	117,406
	Wit. Deep				550,000	27,500	121	68,750
	Wolhuter	April	19	6}	860,000	53,750	7 1	64,500
	OUTSI	DE E	IST	RICT	's GOLD ?	MINES.		
	Glynn's Lydenburg			10	170,000	17,000	71	12,750
Į	Sub-Nigel	. June	9	75	431,580	32,368	5	21,579
	Transvaal G.M. Ests				604,225	30,211	10	60,423

PERSONAL.

Mr. H. A. De Beer has resigned his position as manager of the Transvaal and Rhodesia Estates, Ltd., and associated companies, to take effect from the 31st prox. *

*

The following have been elected office-bearers for the ensuing year of the Rhodesia Scientific Association: President. Dr. G. Arnold; vice-presidents, Mr. A. E. V. Zealley and Mr. W. F. Miolee; Council, Rev. Fr. Goetz, Rev. S. S. Dornan, Messrs. H. M. G. Jackson, C. H. Pead, A. J. C. Molyneux, Geo. Johnson, F. Issels, and F. P. Mennel.

A graceful obituary notice of Mr. Harry Austin Piper, whose sudden death we announced the other day,

The Late appears in the last issue of the London Mining World. Mr. Piper was actually Mr. Piper.

on his way home from South Africa, when on board the steamer he was attacked with pneumonia, from which he never recovered. On arriving at Plymouth Mr. Piper was so ill that he landed there, and it was there that he died. "After a strenuous life in the exercise of his profession, it had been his intention to retire from business and to spend the remainder of his days in this country, but Providence willed it otherwise, and the profession is now left to mourn one of its most distinguished representatives." Mr. Piper for 22 years well and faithfully served the Globe and Phoenix Gold Mining Company. For a short period in the early history of the company he acted as its general manager, but subsequently occupied the post of consulting engineer, which he filled till his death. His connection with the Globe and Phoenix began with the formation of the company in 1895, and might possibly have commenced before that period, though of this our contemporary has no positive knowledge. Besides being consulting engineer to the Globe and Phoenix, Mr. Piper occupied a similar position in connection with the Gold Fields Rhodesian Development Company and its well-known group, which comprises the Antelope, Eldorado, Banket, Falcon and other mines. Mr. Piper was of a retiring disposition and of most unassuming manner. He has left a widow and four children.

The dividend of the Lonely Reef Gold Mining Company,

Ltd., last year amounted to 20 per cent., compared with 15 per cent. for 1915. Lonely Reef Report. From the annual report and accounts of the directors, it will be seen that improve-

ment is shown on the yearly comparison as regards the quantity and grade of the ore milled, 59,240 tons being crushed for 41,491 ozs., being an average return of 14 dwts., or 58s. 10d. per ton crushed. The tonnage milled during the year was equivalent to 4,937 tons monthly and 2,330 tons more than during 1915. The value of the bullion recovered during last year was £174,845, against £154,712, the difference being due to the larger tonnage and the higher grade of the ore milled. The working expenses for the year, including royalty, maintenance, and administration charges, amounted to £108,377, or 36s. 7d. per ton crushed; but at the mine working costs were 27s. 8d. per ton milled, against 25s. 9d. in 1915, or an increase of 1s. 11d. per ton. consulting engineer in his report points out that the higher costs in 1916 were due in part to the increased charges for stores, which were purchased at war prices; in part to increased bullion realisation charges; and in part to increased cost of maintenance. The profit and loss account for the year shows a realised profit of £68,187, to which has to be added the balance of £20,059 brought forward from 1915, making a total of £88,246. Dividends absorbed £42,006; provision for British income tax and French fiscal taxes, and additional remuneration payable to directors on dividends declared, £20,339; while £9,329 was appropriated for depreciation and sundry amounts written off; the balance of unappropriated profits at the end of 1916 being £16,573. supply of labour throughout the year was ample. Lonely Reef will soon be the deepest mine in Rhodesia. The consulting engineer states in this connection that the special problems attending deep mining have been anticipated as far as possible, and that arrangements are being made to carry the work to still deeper levels. The promise of improvement in the development of the mine held out at the end of 1915 has been fulfilled. The ore developed in the main ore shoot in the bottom levels has proved to be as high grade as the richest ore found in the upper levels of the mine. As compared with the previous year, the ore reserves have declined in tonnage but increased so much in value that they are worth £126,000 more than at the end of 1915.

THE NATAL COALFIELDS: PHASES IN DEVELOPMENT .- II.*

[By WM. TAYLOR HESLOP, St. George's Colliery.]

The Action of Dolerite on Coal .- The difficulties incidental to the piercing of the dolerite sheets in order to reach the deeper coal seams, serious though they may be, are trifling compared to the geological effects of the dolerite on the Natal coalfields. There are comparatively few places in the coalfield where a deep drill would not intersect one or more horizontal sheets of dolerite. The extent and continuity of these intrusions is without parallel in any coalfield of the world. In other fields the igneous intrusions may be of a larger scale, but the extent of lateral travel, in the shape of sheets, is very much less. A vertical intrusion will, by the heat emitted at the time of extrusion, deleteriously affect the coal for some yards on either side, but the horizontal sheets frequently affect the coal over areas many square miles in extent. Between Hatting Spruit and Dannhauser, and extending east and west, there is an area of over 50 square miles in extent affected in this manner. Several years ago the writer estimated that about three-fourths of the Natal coal areas were affected by igneous action. Subsequent exploration and investigation indicates that 90 per cent. would have been a much nearer estimate, and that of the total coal areas of Natal, not ten per cent. can be considered of sufficiently good quality for present day market requirements. The speculator, who has the misfortune to lay out his money, without making sure that he is exploiting some of that ten per ceut. of good coal, instead of some of the ninety per cent. of inferior mineral, is likely, therefore, to pay dearly for his experience. Thanks to those who have paid thus dearly, Natal coal is not a popular field for the capitalist. The stranger to Natal, whether mining engineer or layman as far as coal is concerned, frequently asks how it happens that in Wales and in Pennsylvania anthracites and semi-anthracites can be used to such advantage, whereas in Natal it should be discarded as useless. In Wales, anthracite is mined to a considerable extent, and used for special purposes, such as malting, and in suction gas producers. The semi-anthracite, or steam coal, containing 12 per cent. to 15 per cent. of volatile matter, is used for naval purposes, and is considered the best steam coal in the world. The Pennsylvania anthracite is used almost exclusively in New York for domestic purposes, and is also used extensively for steam-producing purposes. why should a similar class of coal be refused a market in Natal? The best answer to this question is to try the experiment of burning Natal anthracite. If we burn a piece of bituminous coal we notice that tarry matter bubbles from it, and that the whole lump swells up, and leaves a porous spongy cinder. The Natal anthracite on the contrary does not swell up and become spongy, but decrepitates violently into splinters, which burn from the outside, until surrounded by a non-conducting jacket of ash, which shuts off the further access of oxygen. This ash in reality contains a nucleus of unburnt coal, and that nucleus represents lost fuel and reduction of efficiency. The envelope of ash indicates retarded combustion, i.e., a slow burning coal. The Welsh coal with only 1 per cent, to 3 per cent, of ash, cannot furnish sufficient material wherewith to manufacture a combustion retarding envelope, and moreover has not the same violence in decrepitation. The American coal has more ash than the Welsh, but less than Natal, and experience has compelled the use of shaking fire bars to throw off the superfluous ash, and thus accelerate combustion. day, not so many years hence, we shall be compelled to adopt similar expedients. Meanwhile, there are large areas of coal, more or less affected, for which there is no present demand, although bye-products and suction gas develop-ments may furnish an outlet. The range of action of the dolerite on the coal depends on the thickness of the former, and on the thickness of intervening strata. Generally the effect will be noticed for a distance equal to 66 per cent.

to 75 per cent. of the thickness of the sheet. In an actual test by the writer, coal was affected for a distance of 17 feet from igneous intrusions 22 feet thick.

Winning the Coal.—In the early days of the industry all the coal was cut by hand picks, and small pillars were left to support the roof, with no thought of future extraction. Before long the irregularity and unreliability of native labour compelled mine managers to turn their attention to mechanical methods of coal-cutting. To Mr. David Harris of Elandslaagte belongs the honour of being the first to introduce mechanical coal cutters, not only into Natal, but into Africa. In 1899 he installed an experimental Jeffry electric driven coal cutter. Its success led to a complete installation of coal-cutters and electric locomotives a little later. At a still later period he superseded the Jeffry machine with the stronger and more adaptable Sullivan chain machine. In 1902 the Dundee Coal Company installed a large Jeffry coal-cutting plant, and Jeffry electric locomotives, before which time their plant and methods were primitive in the extreme. Scarcity of native labour compelled other collieries to follow suit. Where fire-damp was prevalent, electricity as a motive power was inadmissible, and the collieries were obliged to instal compressed air. With compressed air, there was more latitude in the choice of coal-cutting machines. St. George's Colliery adopted the American "Puncher" of Sullivan make, and, to use an Americanism, "fool-proof" in character. Natal Navigation, with characteristic Scotch caution, adhered to the Jeffry type already proved by Harris at Elandslaagte. At the Durban Navigation, Mr. T. G. Colquboun introduced the newer Siskol percussive machine, and his example was followed by the Glencoe and Cambrian Collieries. Gradually every colliery installed some form or other of mechanical coal cutters. At most of the collieries mining is on the "bord and pillar" system, the "bords" being from five yards to six yards wide, the size of pillars being dependent on depth, up to thirty yards square. At some of the shallow mines with thin seams the Welsh single or double shell method has been adopted to a considerable extent, and a good roof tempted with stall widths up to 42 feet. The long-wall method has not been adopted to any extent. although at some mines the natural conditions are very much in its favour. For the haulage from the trainming stations to the shaft the endless rope system is almost everywhere in use. Where conditions are normal the ordinary swan-neck jockey is generally used. At several collieries a jockey made of crucible steel but on the same principle as the swan-neck jockey is found to have many advantages in point of both efficiency and maintenance costs. Its use upsets the principle held by many engineers, that the material of the jockey should not be as hard as the material of the rope. The justification is, that a jockey that grips causes less wear to the rope than a worn jockey of softer material that allows the rope to slip through it. The crucible steel jockey head swivels on a mild steel shank. In many mines branch haulage roads are operated from separate ropes driven from the main haulage by a keyed C type wheel operating a friction clutch. In others the one rope is carried round the branch and back to the main system, in which case a derailment on the branch entails stopping the main haulage. Formerly electric locomotives were employed to a considerable extent at Dundee and Elandshagte, using continuous current at about 250 volts from bare overhead conductors, but maintenance was found to be too expensive.

Pillar Extraction.—In the early days of the field, the pillars of coal left to support the noof were as small as possible; managers for the most part thought the coal field inexhaustible, and that it was quite unnecessary to think of extracting pillars, whilst coal owners, generally speaking, were not aware that it was possible to extract pillars. In one case directors were so impatient for output, that pillars were reduced below safety limits, and the colliery nearly

^{*} Paper read before the C.M. and M. Society of S.A.

sacrificed entirely, in the effort to meet those impatient demands. With deeper workings, it became necessary to leave larger pillars to support the heavier roof, and it was menimbent upon engineers to consider and adopt methods of working, which would permit of the extraction of all the coal, instead of wasting 30 per cent. to 50 per cent. Where only the scam of coal was concerned, this involved no special difficulty, provided that the ultimate extractions of pillars was kept in view during the period of preliminary development, and the temptation to obtain cheap immediate output resisted. Where, as at many collieries, there are two workable scams in close proximity to each other, the difficulties of pillar extraction, such as they are, have increased enor-All pillar extraction, it may be noted, involves the breaking and subsidence of the superincumbent rocks. In the coal measures these rocks break much more readily than the quartzites of the Witwatersrand, and also can be depended on to bend to some extent before they break. If the lower seam is extracted first, it is almost impossible to take out any reasonable proportion of the upper seam, without running grave risks. If the upper seam is extracted first, when the lower seam is tackled, only from 2 ft. to 6 ft. of sandstone protects the mines from the whole mass of broken rock overlying it. Heavy timbering is, therefore, necessary to protect the roads in the lower seam, and even then the roof gradually bends down or collapses under the strain. In consequence it is expedient to do as much as possible of the development on the retreating system, delaying the blocking out of pillars as much as possible. Alternatively, the writer has found that a system of blocking out both seams into pillars, exactly overlying each other, then taking out pillar by pillar, first the top seam, then the lower one, saves much of the cost of road maintenance, and offers many other advantages. The total extraction of two seams lying so close to each other, has not

been generally attempted, and has involved a good deal of experimental work, as well as the consideration of the effects of big earth movements, and their action both on roof and on coal. The primary object of working both seams out entirely is, of course, the prolongation of the colliery's life, by preventing the waste of coal. From a company's point of view, that is only justified if the profits gained during the added period of life, more than compensate for any extra working costs. Such a policy can only be possible when both mannger and directors are prepared to face the future, as well as the present. But from the point of view of the public interest, the question whether any colliery should be allowed to waste national assets, which can never be replaced, is one of paramount importance. South Africa is by no means so rich in coal as was formerly supposed, and even if the individual shirks his duty to future generations, the national spirit will, sooner or later, recognise national responsibility towards posterity. Coal is being wasted to-day in South Africa in a manner that no British royalty owner would ever for a moment permit in one of his mining leases. The British royalty owner has only his family to consider, South Africa has its responsibility to the future of the nation. To prevent such waste by prohibitive legislation is by no means an easy problem. Questions of payability of seams, and more particularly of what constitute waste, are by no means easy. A special tax on wasted coal, or preferably a tax on output wherever workable coal is being wasted, would be somewhat simpler, and more practic-The difficulties would be great, but such as they are, they have been in practice overcome by British royalty The extraction of pillars from both seams solves owners. another problem which, during the last few years, has loomed large in Natal coal mining, namely, the problem of goaf fires.

(To be continued.)

ANSWERS TO CORRESPONDENTS.

All enquiries addressed to the Editor must bear the writer's name and full address. We cannot reply to enquiries by letter, but telegrams with replies prepaid will be answered. Correspondents are requested to write their names and pseudonyms distinctly.

- "A.S." (Graskop).—Your questions involve too many considerations for a brief reply here. A full statement on the subject will appear in our next issue.
- "Base Metal."—A company styled the Rhodesia Lead and Zinc Syndicate, Ltd., was registered at Salisbury last year with a nominal capital of £10,000.
- "Wolhuter."—The position is, if anything, better; and the new control should have a good effect.
- "Miner."—The Transvaal last year, it is estimated, produced about 40 per cent. of the world's gold output; the Transvaal with Rhodesia about 44 per cent.
- W.P.D.—(1) No. (2) The process is proving highly successful.
- "Shareholder."—The appeal has been dismissed with costs, and the result will doubtless be liquidation for the losing company.
- "Que Que."—(1) Like other similar shares, highly speculative, even at present prices. (2) A good investment. (3) June and December.

British Manufacturing Firms of importance wish to correspond with and appoint Agents for the sale of Machinery, Plant and Stores, suitable for Mines, Collieries, Sugar & Rubber Plantations, Light Railways, Irrigation, Docks, etc. Application in the first instance, with references, to Box M 1460, c'o of Dawson's Advertising Agency, 121, Cannon Street, London, E.C. 4., England.

The report dealing with the labour conditions in the Union issued by the Mines and Industries Department for the month of May shows the following applications for employment: Johannesburg, 100; Pretor a, 97; Capetown, 120; and Durban, 125. The applications from employers were: Johannesburg, 34; Pretoria, 62; Capetown, 229; Durban, 66. Work was found in Johannesburg for 32. Pretoria 57, Capetown 51, and Durban 38. The Johannesburg Superintendent reports: "Although three industrial disputes took place during the month, the labour market has not been seriously disturbed except in respect of the lost in wages through the stoppage of work, which has been considerable with the three strikes which took place. As strikes go, they were carried out in an orderly manner, that is, free from any violent action. Thirty-three per cent, of those who registered were found employment, and perhaps as many more got work through their own efforts, so that unemployment does not appear to be an acute problem at the present time. The advance in wages in the building trades in Johannesburg and Pretoria is not in itself likely to affect building operations scriously; the increase in imported material and the difficulty in getting supplies even at the increased cost is considered the more important. Corrugated iron has gone up in price over 200 per cent, since August, 1914, and it is now being displaced for roofing purposes by South African manufactured tiles. Roofing timbers require to be heavier, and the tiled roof looks more substantial, while the actual cost is about the same as the corrugated material imported. At present the dema d for roofing tiles is much greater than the makers can supply. Similar difficulties are experienced in the engineering trades, but with this difference, that they are unable to find a local substitute." The Pretoria Superintendent reported, inter alia: "There is an increase in the number of men seeking clerical employment, vacancies for such not being readily found, as few demands for that class of servic

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THE WEEK IN THE SHAREMARKET.

Quotations ex Dividend-Prices Good-Business Restricted.

The market was generally harder on Saturday morning. Springs maintained their overnight gains, also Government Areas, Van Ryn Deeps, and Sub Nigels. The Modder trio were strong, and no selling quotation for New Modders was obtainable. Kleinfonteins took a turn for the better, and after the call were worked up to 18s. buyers, on the strength of reported profits at an increased rate a month. African farms continue to be a weak feature, and there was no buying offer whatever.

Monday's performance at the call was very nearly a record. One sale of Government Areas went through, and four others only in stocks under 5s. In comparing the prices with those of Saturday, it must be noted that 39 stocks were ex dividend. The market became more active after the call, and there were numerous dealings in Govern-

ment Areas.

On Tuesday morning business expanded to the extent of six sales at high 'Change. Prices, however, were firm, and nothing was being given away except Knight Centrals and Bantjes. Modder B's and Deeps were both in demand at better rates, but New Modders were only enquired after in odd lots.

On Wednesday there was no increase in the volume of business, but on the whole prices were satisfactory, notably in Springs Mines, Government Areas, Modder B's and Deeps. Rooibergs had another push back: in short, all

Deeps. Rooibergs had another push back; in short, all tin stocks are neglected, notwithstanding the enormous advance in the price of the metal. The Exchange was closed in the afternoon in honour of Independence Day.

On Thursday morning another lower depth was touched with four sales on high 'Change. Yet prices are wonderfully firm, and someone was actually found to take a parcel of Knight Centrals. The following are the week's quotations for outside stocks. Sales, with hardly an exception, have been in odd lots:—Sales: S. Van Ryns, 7s. 4d. to 7s. 6d.; Hendersons, options, 1s.; Monteleos, 49s. to 55s.; Sakalavas, 4s. 6d. to 5s.; Erfbloom, 6s.; Invicta, 22s. to 24s.; Union Gold, 21s.; S.A. Alkali, 34s. Other prices: Union Tins, 3s. 3d. to 3s. 6d.; Rietspruits, 2s. 6d. buyers; Hendersons Estates, 4s. 6d. to 5s.; Modder East options, 7s. to 7s. 6d.; Union Tin, 3s. 3d. buyers.

The market was more active on Friday morning, with a corresponding increase of business. Prices, where altered, were generally better, as may be noted by the list below, the only exceptions being Van Ryn Deeps, Knight Centrals, and Daggafonteins. Sales: Aurora Wests, 14s. 6d.; Consolidated Main Reefs, 16s. 3d. and 16s. 6d.; Geduld Props., 37s.; Modder Deeps, £6 12s. 6d.; New Elands, 26s.; Sub Nigels, 24s. 6d. and 24s. 4½d.; Van Ryn Deeps, 60s. 6d.; Kright Centrals, 3s. 6d. Buyers and sellers: Modder B's, £7 11s. to £7 12s. 6d.; Daggafonteins, 22s. 3d. to 22s. 6d.; City Deeps, 73s. 6d. to 74s. 6d.

*	:	*	*	*		
•	Fri. 2 9th.	Sat. 30th.	Mon. 2nd.	Tues. 3rd.	Wed. 4th.	Thurs. 5th.
African Farms	8 0†	7 9*	7 8	8 0+	7 9*	8 0†
Apex Mines	7 0*	7 3			6 6	7 0+
Aurora Wests	15 6t	14 6†	-	_	14 6+	13 6*
Bantjes Con	4 4	4 7	4 9	4 6	4 4*	4 3*
Brakpan Mines	98 6*	100 OB	97 0t	-		_
Breyten Collieries		_	17 0+	-		_
Brick and Potteries .		5 0*		5 0*	5 0*	
British South Africa		10 .0*		_	_	10 11*
Bushveld Tins			0 3*	0 3*	_	0 3*
Cassel Coals		_				27 O+B
Cinderella Cons	. —	_		_	6 Ot	4 0*
City & Suburbans	28 6*	29 0*	24 0*	_	24 6*	21 6*
C.ty Deeps	78 0	77 0	71 6*	72 0	71 6*	71 6*
Cloverfields Mines	7 9*	8 0		-	_	8 0*
Clydesd le Collieries	12 6*	12 6*		_	_	
Concrete Construct.	. —	0 6*		_	0 6*	
Con. Investments .			16 0*	16 0*	-	_

^{. *}Buyers. . +Sellers. AOdd lots. BEx London.

	29t	čri. h.		at. th.	Ma 21	n. nd.		ies. rd.		ed.	Thu 5tl	
Con. Langlaagtes .	21	6*	21	0.4	_	_	22	0†	22	0+	22	0†
Con, Main Reefs	16	0	16	Đ*	15	()*	15	0*			15	6*
Con. Mines Select	23	9*	23	9×	23	9.*	23	9*	23	9*	23	9*
Coronation Collieries	_	_	33	()*	31	0*	_	_	_	_	_	_
Crown Diamonds .	-	-	1	3*	1	6 %	1	6 *	1	6*	1	6.
Daggafonteins	22	0 *	22	0*	22	0*	22	0 *	22	3*	22	€,*
Durban Roodepoort	15	0†	_	-			16	0+	15	0+	15	0+
East Rand Cents. :	10	0 *	10	0.*	10	0 *	10	()*	10	0.*	10	6*
East Rand Coals	1	11*	1	11*	1	11*	1	11*	1	11*	1	11*
East Rand Deeps	_	_		_	_	_	_	_	1	0+	0	10+
East Rand Minings	14	0+	-	~	14	0+	-	_	14	0+	14	0+
East Rand Props	5	3*	5	0*	_	-	6	0.*	6	0."	6	()*
Eastern Golds	1	0×	1	0*	1	0.*	_	-	1	0*	1	0.
Frank Smith Diams. Geduld Props	3 36	4* 6†	3 36	4* 6	3 35	6*	3 35	5* 6*	3 35	4* 6*	3 36	4° 6°
Geduld Props Glencairns	1	0*	1	0*	-0.0	-0	1	0*	1	0.*	90	0
Glenca Collieries .	9	6*	9	6*		_	- 1		9	0*		_
Glynn's Lydenburgs	_	_	_	_	_	_	15	3*	16	3*	_	_
Government Areas .	61	9	62	3	62	3	62	3*	62	3	63	3 *
Jupiters	4	9*	5	0*	-		_	-	-		-	-
Kright Centrals	4	11	5	0	4	4	3	9	3	6*	3	8
Knights Deeps	4	-6	4	- 6*	- 1	7*	4	6*	17	6† 7*	15	0† 7*
Lace Props Lecuwpoort Tins	- 4		13	0*	7	_'	12	0*	12	0*	12	0*
Luipaardsvlei Ests.	_	_	3	6*	_	_	-	_	-		3	0.4
Lydenburg Farms .	7	3*	7	4	7	1*	7	1*	7	2*	7	1.
Main Reef Wests .		10	4	0+	3	6*	3	9+	4	0+	3	4.*
Meyer & Charlton . Middelvlei Est	105	0* 0*	-		_	-	1	0*	-	_	1	0.
	153	0	154	0*	145	6*	146	0*	150	 6a	150	6*
Modder Deeps	136	6	137	6	128	0*	129	6*	130	0*	131	6*
Natal Nav. Collieries	18	6*	18	6*	-	_	-	_	17	9*	17	9*
New Boksburgs]	3*	$\frac{1}{28}$	3*	1	0.4	-	_	-		1	0.4
New Eland Diams New Era Cons	27 9	6* 0	28 8	6* 9*	29	6+	28	6† 0	26 8	9 a	28 9	6† 0*
New Geduld Deeps	6	4*	6	3*	6	4*	6	4*	6	4*	6	4*
New Heriots	33	9*	_		_	_	-	_	-	_ ^	_	
New Kleinfonteins	17	3	17	6	17	9*	17	6*	17	6	17	9
New Modders New Unifieds	422	6	423 9	9* 0*	407 10	6* 0+	10	0+	420	0+	-	_
Nigels	_	_	9_		10	U T	10	-07	9	6*	2	0*
Nourse Mines	20	()*	20	0*	_	_	_	_	20	0+	20	0+
Pretoria Cements .	87	6*	87	6*	83	() *	-	-	84	0*	86	0
Princess Estates	1	6*	1	6*	1	6*	1	6*	1	6*	1	6*
Rand Collieries Rand Klips	8	9*	2 9	2* 0	8	9*	8	10*	-		-	- 6.8
Rand Klips Rand Nu leus	0_	_9	1	4 4	- 0	J	8	10.	8	10* 4*	9	0* 4*
Rand Select, Corp.	74	0	73	9*	71	0*	71	()*	70	0.*	71	6*
Randfontein Deeps .	4	9*	-		-4	9*	-4	6*	4	6*	4	9*
Randfontein Ests	13	0+	-	_	12	9 *	13	0*	12	9 *	12	9.
Roberts Victors	8	0† 6	-	9	6	9*	7	- 3	-		-	
Rooibergs	17	0*	6 18	0.4	0	9	- 4	3	6	8	6	6*
Rietkuil	- 1	_	-		_	_	_	_			1	3+
Rvan Nigels	_	-	-	_	2	0*	-	_	-	_	-	_
Shebas	1	0+	0	11*		11*	1	0+	0	11"	0	11*
	1 4	9* 6	1 4	9* 6*	1	9* 6*	1 4	10 ° 6*	1	10*	1	10*
S.A. Lands Springs Mines	58	6	59	0	58	6*	58	6*	59	7	4 59	8 0*
Sub-Nigels	25	6	26	0	24	3*	-		24	3*	24	6*
Swaziland Tins	30	0+		_	_	-	-	_	24	6*	24	6*
Trans. G.M. Estates	13	3*	13	0.*	13	0*	13	6*	14	0.*	14	6*
Transvaal Lands Van Ryn Deeps	10 65	0 * 6 *	9 65	6 * 6 *	10 61	() *	10 61	0 * 3	10 61	0 a	10	0.
Village Deeps	23	0*	00		23	6+	23	0+	23	0+	61 23	3 6+
Village Main Reefs	17	0	-	_	_	-				_		_
West Rand Cons	-	-	-		6	6+	- 6	6+	6	6†	6	6+
West. Rand Estates Witbank Collieries .	-	-	1	0.4	4.0	-0.6	-	_		-	1	0.
Witwaterstands	42	6+	42	- 6±	43	0.*	-				38	- 6†
Wit Deeps	14	0*	15	0+	1.4	- (++		_	12	0 *	11	6*
Wollinters	- 8	3.*	8	3*	S	3*	8	6+	8	0.*	8	3*
Znaiplants Tins	5	10*	5	11*	6	0.*	. 6	1"	6	1 *	6	1*
Union 5 per c nt., £1 8s. 9d.+; £100 8s	8 001	s. 1.	id.† £100	: £1	00 Ss	. 1	d.;	£10	0.88.	. 9d.	+;£	100
os. su.f; &100 88	, 90		36 X U U	10:	5, 1							

*Buyers (Sellers, (Odd lots BEx London,

South African Collieries, Ltd.

A bonus of five per cent. (one shilling per share) will be paid to shareholders of the South African Collieries, Ltd., registered in the books of the company on 10th July next.

METALLURGICAL PROBLEMS OF THE RAND.-IV.

[By H. FOSTER BAIN.]*

Bala-Malas

The alternative for stamps is some form of rolls, edge runners, or ball mills, and many of these have been tried. So far all have proved to consume so much steel as to off-set what other advantag's they show. This is imputed by Caldecott to the fact that all of them introduce abrasion, which is interesting, since about two thirds of the crushing on the Ran I is now done in tube mills, where abrasion is most important. The figures already quoted demonstrate that the crushing done in the tube mill costs less than that necomplished by the stamp, a fact fully appreciated on the Rand, where the tendency is to throw more and more of the work on the tubes. The explanation of the paradox is the fact that the "pebbles" in the tube mills are merely roughly rounded pieces of ordinary banket. Their abrasion is therefore a benefit rather than the reverse. If the work now done were accomplished by means of steel, or even barren ehert pebbles, the economic ratio would be seriously disturbed. In Canada and the United States the ball mill has been gaining ground recently at the expense of stamps. The reason for the renewed interest lies in improved methods of discharge, as in the Marcy mill, coupled with the sizing action of the conical shape in the case of the Hardinge. At a number of mines where competitive tests have been made, ball mills have been substituted for stamps both on the basis of economy of floor space and of lower power consumption. At the Dome, where C. W. Dowsett, formerly at the Brakpan, is mill superintendent, Hardinge ball mills are being substituted for stamps to erush 3 in. material to $\frac{1}{4}$ in., with 50 per cent. passing 100-mesh. For this purpose an 8-ft. mill, 30 in. long, driven by a 125-h.p. motor, is used. C. D. Kaeding, the general manager, states that the steel consumption from balls is 0.22 lb. per ton and he estimates the liner consumption at 0.60 lb. McIntyre a 6-ft, mill showed a total steel consumption of 1.03 lb. per ton. This may be compared with half a pound per ton with stamps on the Rand. In this connection it may be mentioned that extensive trials completed some time ago on the Rand with the Giesecke, a double-chambered tube mill, showed a quite prohibitive consumption of steel balls. As the ore in the Porcupine district is a comparatively soft though tough schist, the Dome metallurgists are not willing to commit themselves as to what a ball mill would do there. In this connection a word of caution may be appended as to the results of short-time tests. As balls are usually made, by forging, they are much harder on the exterior than through the whole ball. A new charge therefore gives better results as to steel consumption than a true average. Another machine which is attracting attention for intermediate work is the disc-crusher. This has the advantage of great freedom of discharge, since the ore is fed through the centre and the material passes out around the circumference of a circle, the action being rendered positive by employment of centrifugal force. It also has the advantage, which may prove important on the Rand, that the crushing is not accomplished by rolling or abrading, but by pinching or nipping. The action is similar to that in a jaw-crusher isnce the two horizontal revolving discs are set slightly eccentric to each other so that the two rims approach and recede as do the jaws of an ordinary One of the disc-machines has been used in crusher. crushing waste-rock on the Rand for road-making. spring the Mines Trials Committee began A scries of tests upon it to determine its availability for regular work in the mills. The preliminary figures showed remarkable results as regards quantity of material handled and power consumption, but the excessive consumption of steel was found to offset all other advantages, and the dise-crusher was condemned as wholly inapplicable to Rand ore.

* In the Mining and Scientific Press.

Amalgamation

If the hardness of the ore is a serious detriment to low crushing costs, the fact that the gold is "free " simplifies the succeeding trentment. Despite various changes, amalgumntion still plays an important part in the recovery of the gold, although the use of coarse screens in front of the stamps has necessitated the transfer of the plates to a position below the tube mills. At the Homestake mill, Clark has shown that from 86 to 91 per cent, of the amalgamation is accomplished in the mortars and on the first two rows of plates, and it is common experience that the bulk of the gold is saved near the head of a string of plates. On the Rand amalgamation in the mortars has long been abandoned and the plate-area greatly restricted. It was, I believe, Mr. Maxwell at the Randfontein who first made a radical reduction in plate-area, but the practice has now become general, the minimum being in the Gold Fields mills, where there are only three plates of $4\frac{1}{2}$ by 12 ft. area per tube mill circuit. It has been found that the consumption of mercury is proportionate to the plate-area exposed, but the recovery of gold is not. With the efficient cyanidation plants now in use there has been no increase in tailinglosses in consequence of reducing the plate-area. Of the total value recovered in 1915, namely, £37,264,992, amalgamation was responsible for £23,809,801, or 64 per cent. Contrary therefore to the general impression, amalgamation is still much more important than eyanidation on the Rand. It is a bit surprising to contrast the small area devoted to plates and the big yield from it, with the acres of vats and other plant devoted to evanidation. It is easy to see why local metallurgists hesitate to adopt any method that interferes with amalgamation; all the more in view of the fact that while the bulk of the gold exists in the rock in very fine particles, coarse gold is present and often in amounts sufficient to threaten serious tailing losses if the present system of cyanidation alone were relied upon

CRUSHING IN CYANIDE.

It is this that has stood in the way of crushing in cyanide, despite the great saving that might be realised if the process were adopted. The objections are mainly the corrosion of the plates and the difficulty in sampling. Minor objections are the necessity for handling a baser bullion due to the cyanide dissolving copper from the plates, the need of a more expensive cyanide treatment, and the increased liability to loss from leakage. It is just possible that these difficulties are not so serious as has been thought. It was in 1892, I believe, that the process was tried at the May Consolidated and condemned, and much has been learned since that pioneer date. It has been my general observation that in mills where crushing in cyanide is practised the trouble with the plates is much less important than had been anticipated. At the Lonely Reef only a few months ago I was told that there was no trouble. While, owing to the small plate-area used on the Rand, amalgamation practice differs a little from that in other districts, it is still not easy to see why there should be any corrosion beyond the control of capable metallurgists. Remembering the years that shaking plates were built on the Rand because of some early experiments, only to be found later unnecessary and abandoned, and recalling various metallurgical experiences in other districts, the visitor wonders whether by chance this is another instance where a thing is believed to be impossible because it has not been recently tried.

(To be continued.)

The twenty-ninth ordinary general meeting of share-holders in the New Jagersfontein will be held at the company's office, 30, Stockdale Street, Kimberley, on Wednesday, 25th July, 1917, at 11 a.m.

Rhodesian Section.

MAY MINERAL OUTPUT IN DETAIL.

We have received for publication from the office of the Rhodesia Chamber of Mines (Incorporated) the following detailed statement of the mineral output for the month of May, 1917, with comparisons and values:-

MATABELELAND.

	No. of stamps.	Tons treated.	Yield.	Value. £
BULAWAYO DISTRICT-				
Abercorn (W. J. Lane)	ð	115	102.94	427
Agincourt (S. Levin)	5 1P	500	104.62	434
Annasona (Rhodesia, Ltd)	3 1P	307	191.19	792
Do. (sards)	-	172	134.89	808
Antelope G.M. (Rhod.), Ltd. 2BM	2P 1P	4,145	788.60	3,262
Do. (sands)	-	$\frac{3,813}{925}$	1,514.41	4,786
Blue (W. Arbery)	5 5	120	129.98 40.93	538 170
Beeswing (R. Toshack) Boomerang (Boomerang Synd.)	5	539	297.58	1,234
Do. (sands)	_	320	58.73	213
Do. (sands)				
Cormack	5.	330	112.07	464
Do. (sands)		162	27.17	117
Camp (Carson Mines, Ltd.) Do. (sands)	* 5	560 360	309.87 75.48	$\frac{1,284}{313}$
Cecil (Master Cecil Synd.)	3	83	48.54	201
Confidence (A. D. Hall)	3	626	97.69	405
Do. (sands)	-	540	51.59	226
Cream (CG. Bancroft) April and May (sands)				
D V V (D V P Sund)	- 5	$\frac{192}{205}$	$\frac{16.11}{41.12}$	67 170
D.Y.R. (D.Y.R. Synd.) Donove A (W. K. Early)	5	97	104.41	433
Do. (sands)	_	90	30.18	125
Durban (Durban Synd.)	2	212	109.17	452
Do. (sands)	. —	140	46.87	174
Eagle Hawk (F. Berwitz) Farvic (H. S. Henderson)	2 5	250	90.19	374
Do (sands)		$\frac{662}{568}$	$284.76 \\ 27.61$	1,208 117
Flora (J. L. Henderson)	5	450	71.34	296
Frank's Luck (R. Aserman) April	(5)	145	21.59	89
Do. May	5	256	33.50	139
Fred (Trans. & Rhod.Synd.)	$10^{\circ}2P$	1,850	1,208.48	5,010
Do. (sands)	5	$\frac{1,850}{270}$	$372.14 \\ 47.49$	1,543 197
Great Britain (Criterion G.M.)	- 5	250	37.70	156
Do. (sands)		160	13.40	56
Do. (sands) Hanover (W. & A. Synd.)	3	540	152.28	631
Jessie (Harris & Smith) Jumpers (J. P. McCay) Do. (sands)	10	305	85.32	354
Jumpers (J. P. McCay)	5	$\frac{365}{215}$	$\frac{329.85}{28.79}$	$\frac{994}{119}$
Do. (Blyth & Marriott) (sands)		591	20.19	113
Do. do. (slimes)	-	616	56, 11	234
Leisure (Jas. Mitchell)	5	75	19.58	81
Lone Hand (Armstrong, Furber & Alexander)	_	40.7	074.03	1.000
Do. (sands)	5	137 270	$254.91 \\ 53.92$	$\frac{1,057}{224}$
Louely Reef G.M. Co., Ltd	20 3T	4,500	1.139.91	1,725
Do. (slimes)	_	4,500	2,933.56	12,161
Long John (Susanna Mines, Ltd.)	2 GR	5,344		
Do. (sands)	_	5,341	644.12	2,670
Mamba (Bawden & Chesworth) Do, (sands)	5	$\frac{360}{175}$	130.79 29.15	542 122
Matabele Queens Co., Ltd	10	1,800	346.02	1,431
Do. (sands)		1,800	484.32	2,008
Do. (sands)		•		1
April clean up	1.5	4-00	8.14	34
Mission (T. A. Mathews)	11 5	100	$\frac{20.38}{7.33}$	84 30
Nelly (E. D. Roscoe)	2H	675	$\frac{1.33}{258.70}$	$\frac{30}{1.072}$
Near By (R. Innes) Nelly (F. D. Roscoe) Do. (sands)	-	270	113.35	170
New Eclipse (J. R. Stewart)	5 1T	1,274		
Do. (sands)		320	240.17	1,020

MINING EXAMINATIONS.

Study for Certificates as Mine Captains, Mine Managers, Surveyors, Mechanical and Electrical Engineers, and Engine Drivers. Private Tuition and Correspondence Lessons, where personal tuition is impracticable. Practical Mathematics and Electrotechnics. E. J. MOYNIHAN, Consulting Engineer, Cuthbert's Buildings, corner of Eloff and Pritchard Streets, Johannesburg, P.O. Box 2061.

Newtonfontein (A. II, Newton) 3 400 392.24 1,626	Newtonfontein (A. II. Newton)					
Do. (sands)	Do. (sands)	•				
Do. (sands)	Do. (sands)	Newtonfontein (A. II. Newton)				
Co., Ltd. 15 P	Co., Ltd. 15 P	Do. (sands)	_	200		
Do. (concentrates)	Do. (concentrates)	Co., Ltd.)			549,16	2,276
Peach A (Peach Synd.) 10 662 233.12 960 Prince Olaf (K. Johnsen) 5 310 161.19 668 Progress 2 (Progress M. Synd.) 10 696 305.73 1,2267 Queens W. Ex. (Cumings & Berry) 5 600 226.80 940 Do. (sauds) - 685 152.16 631 Rathgar (W. H. Robinson) 5 330 44.53 1855 Red Boy (H. Lunnun) 3 43 45.03 187 Red Rose (F. C. Barrett) 5 389 151.37 627 Do. (sands) - 415 12.09 50 Rhod. Queen (Gilpin & Pickles) 5 80 44.55 185 Sabi (Fletcher & Williamson) 10 900 183.98 763 Do. (sands) - 550 131.22 556 Sabi (Durrell & Gardiner) - 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 405 48.38 201 Slope 1 (E. E. Beecroft) 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) - 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 25 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sands) - 308 53.72 223 Bulawayo District total 16,830.03 69,800 Gwelo District— Adderman (Williams & Woodger) 5 350 109.93 456 Canadians (H. A. Bradlely - 26 - 26 - (Copper ore treated at Falcon Mine) Mine) Cactus (Renton & Gray) Apr. 5 320 39.70 165 Do. (sands) - 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.547 182.76 755 Do. (sands) - 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.547 182.76 755 Do. (sands) - 90 278.44 1,154 Do. (sands) - 90 278.44 1,154 Do. (sands) - 90 278.44 1,154 Do. (sands) - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750	Peach A (Peach Synd.) 10 662 233.12 960 Prince Olaf (K. Johnsen) 5 310 161.19 668 Progress 2 (Progress M. Synd.) 10 696 305.73 1,2267 Queens W. Ex. (Cumings & Berry) 5 600 226.80 940 Do. (sauds) - 685 152.16 631 Rathgar (W. H. Robinson) 5 330 44.53 1855 Red Boy (H. Lunnun) 3 43 45.03 187 Red Rose (F. C. Barrett) 5 389 151.37 627 Do. (sands) - 415 12.09 50 Rhod. Queen (Gilpin & Pickles) 5 80 44.55 185 Sabi (Fletcher & Williamson) 10 900 183.98 763 Do. (sands) - 550 131.22 556 Sabi (Durrell & Gardiner) - 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 405 48.38 201 Slope 1 (E. E. Beecroft) 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) - 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 25 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sands) - 308 53.72 223 Bulawayo District total 16,830.03 69,800 Gwelo District— Adderman (Williams & Woodger) 5 350 109.93 456 Canadians (H. A. Bradlely - 26 - 26 - (Copper ore treated at Falcon Mine) Mine) Cactus (Renton & Gray) Apr. 5 320 39.70 165 Do. (sands) - 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.547 182.76 755 Do. (sands) - 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.547 182.76 755 Do. (sands) - 90 278.44 1,154 Do. (sands) - 90 278.44 1,154 Do. (sands) - 90 278.44 1,154 Do. (sands) - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750 114.39 474 Do. (sands) Apr. & May - 750		_		124.37	515
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Progress 2 (Progress M. Synd.) 10 696 305.73 1,267 Queens W. Ex. (Cumings & Berry) 5 600 226.80 940 Do. (sands) 685 152.16 631 Rathgar (W. H. Robinson) 5 330 44.53 185 Red Boy (H. Lumnn) 3 43 45.03 187 Red Rose (F. C. Barrett) 5 389 151.37 627 Do. (sands) 415 12.09 50 Rhod. Queen (Gilpin & Pickles) 5 80 41.55 185 Sabi (Fletcher & Williamson) 10 900 183.98 763 Do. (sands) 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 465 48.38 201 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 465 48.38 201 Slope 1 (E. E. Beecroft) 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 25 25 25 25 25 25 25 2	Progress 2 (Progress M. Synd.) 10 696 305.73 1,267 Queens W. Ex. (Cumings & Berry) 5 600 226.80 940 Do. (sands) 685 152.16 631 Rathgar (W. H. Robinson) 5 330 44.53 185 Red Boy (H. Lumnn) 3 43 45.03 187 Red Rose (F. C. Barrett) 5 389 151.37 627 Do. (sands) 415 12.09 50 Rhod. Queen (Gilpin & Pickles) 5 80 41.55 185 Sabi (Fletcher & Williamson) 10 900 183.98 763 Do. (sands) 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 465 48.38 201 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 465 48.38 201 Slope 1 (E. E. Beecroft) 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 25 25 25 25 25 25 25 2	Prince Olaf (K. Johnsen)				
Queens W. Ex. (Cumings & Berry)	Queens W. Ex. (Cumings & Berry)	Progress 2 (Progress M. Synd.)				
Do. (sands)	Do. (sands)	Queens W. Ex. (Cumings & Berry)	5			
Red Boy (H. Lunnnn) 3 43 45.03 187 Red Rose (F. C. Barrett) 5 389 151.37 627 Do. (sands) — 415 12.09 50 Rhod. Queen (Gilpin & Pickles) 5 80 44.55 185 Sabi (Fletcher & Williamson) 10 900 183.98 763 Do. (sands) — 550 131.22 556 Sabi (Durrell & Gardiner) — 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 405 48.38 201 Slope I (E. E. Beecroft) 5 735 91.57 380 533 65.22 270 Do. (sands) — 190 38.66 160	Red Boy (H. Lunnnn) 3 43 45.03 187 Red Rose (F. C. Barrett) 5 389 151.37 627 Do. (sands) — 415 12.09 50 Rhod. Queen (Gilpin & Pickles) 5 80 44.55 185 Sabi (Fletcher & Williamson) 10 900 183.98 763 Do. (sands) — 550 131.22 556 Sabi (Durrell & Gardiner) — 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 405 48.38 201 Slope I (E. E. Beecroft) 5 735 91.57 380 533 65.22 270 Do. (sands) — 190 38.66 160	Do. (sands)	-	685	152.16	
Red Rose (F. C. Barrett)	Red Rose (F. C. Barrett)	Rathgar (W. H. Robinson)	5	330	44.53	185
Do. (sands)	Do. (sands)	Red Boy (H. Lunnun)		· 43	45.03	187
Rhod. Queen (Gilpin & Pickles) 5 80	Rhod. Queen (Gilpin & Pickles) 5 80	Red Rose (F. C. Barrett)			151.37	627
Sabi (Fletcher & Williamson) 10 900 183.98 763 7	Sabi (Fletcher & Williamson) 10 900 183.98 763 7	Phod Owen (Cilei & N. 11				
Do. (sands)	Do. (sands)	Sold (Flot from 6 TYPE)				
Sabi (Durrell & Gardiner) — 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) — 5 405 48.38 201 Slope 1 (E. E. Beecroft) — 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) — 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 225 235 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sands) — 398 53.72 223 Do. (sands) — 296.54 1,229 Do. (sands) — 26 — (Copper ore treated at Falcon Mine) — 26 — (Copper ore treated at Falcon Aline) — 26 — (Copper ore treated at Falcon Aline) — 26 — (Copper ore treated at Falcon Aline) — 200 23.30 96 Connemara (Connemara Synd.) 20 10 4,547 763.39 3,165 Do. (sands) — 4,547 763.39 3,165 Conqueror (Leppington and McConkey) — 2 168 129.54 537 Csardas (Wolfshail Synd.) 10 490 278.44 1,154 Do. (sands) — 300 49.65 206 Do. (sinds) — 300 49.65 206 Do. (sands) — 300 49.65 306 Do.	Sabi (Durrell & Gardiner) — 840 52.36 217 Sable A (New Clifton C.G.M. & D. Co., Ltd.) — 5 405 48.38 201 Slope 1 (E. E. Beecroft) — 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) — 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 225 235 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sands) — 398 53.72 223 Do. (sands) — 296.54 1,229 Do. (sands) — 26 — (Copper ore treated at Falcon Mine) — 26 — (Copper ore treated at Falcon Aline) — 26 — (Copper ore treated at Falcon Aline) — 26 — (Copper ore treated at Falcon Aline) — 200 23.30 96 Connemara (Connemara Synd.) 20 10 4,547 763.39 3,165 Do. (sands) — 4,547 763.39 3,165 Conqueror (Leppington and McConkey) — 2 168 129.54 537 Csardas (Wolfshail Synd.) 10 490 278.44 1,154 Do. (sands) — 300 49.65 206 Do. (sinds) — 300 49.65 206 Do. (sands) — 300 49.65 306 Do.			0.00		
Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 405 48.38 201 Slope 1 (E. E. Beecroft) 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 225 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sands) - 398 53.72 223 Do. (sands) - 398 53.72 223 Bulawayo District total 16,830.03 69,800 69,	Sable A (New Clifton C.G.M. & D. Co., Ltd.) 5 405 48.38 201 Slope 1 (E. E. Beecroft) 5 735 91.57 380 Star (Romoia Nigel G.M. Co.) 5 323 65.22 270 Do. (sands) 190 38.66 160 Verdun (P. J. Steyn) Mar. 3 50 5.93 225 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sands) - 398 53.72 223 Do. (sands) - 398 53.72 223 Bulawayo District total 16,830.03 69,800 69,					
Slope (E. E. Beecroft)	Slope (E. E. Beecroft)	Sable A (New Clifton		840	52.36	217
Star (Romoia Nigel G.M. Co.)	Star (Romoia Nigel G.M. Co.)	C.G.M. & D. Co., Ltd.)			48.38	201
Do. (sands)	Do. (sands)	Slope I (E. E. Beecroft)			91.57	380
Verdun (P. J. Steyn) Mar. 3 50 5.93 25 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sauds) - 398 53.72 223 Bulawayo District total 16,830.03 69,800 Gwelo District— Alderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) - 720 45.08 187 Bell Reef Dev. Co., Ltd. clean up - - 296.54 1,229 Bonsor B327 (T. Roberts) 10 600 71.22 295 Bonsor B327 (T. Roberts) 10 550 109.93 456 Canadians (H. A. Bradle)y - 26 - - (Copper ore treated at Falcon Mine) Mine) 304 5.90 24 Catus (Renton & Gray) Apr. 5 320 39.70 165 Do. (sands) - 304 5.90 24 Cap (W. Cock) (sands) - 90 23.30 96	Verdun (P. J. Steyn) Mar. 3 50 5.93 25 Wolley Dog (Mrs. G. C. Davis) 5 380 77.33 321 Do. (sauds) - 398 53.72 223 Bulawayo District total 16,830.03 69,800 Gwelo District— Alderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) - 720 45.08 187 Bell Reef Dev. Co., Ltd. clean up - - 296.54 1,229 Bonsor B327 (T. Roberts) 10 600 71.22 295 Bonsor B327 (T. Roberts) 10 550 109.93 456 Canadians (H. A. Bradle)y - 26 - - (Copper ore treated at Falcon Mine) Mine) 304 5.90 24 Catus (Renton & Gray) Apr. 5 320 39.70 165 Do. (sands) - 304 5.90 24 Cap (W. Cock) (sands) - 90 23.30 96	Star (Romoia Nigel G.M. Co.)				
Wolley Dog (Mrs. G. C. Davis)	Wolley Dog (Mrs. G. C. Davis)	Verdun /P I Stove Man				
Bulawayo District total Gwelo District— Aiderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) — 720 45.08 157 Bell Reef Dev. Co., Ltd. clean up — 296.54 1,229 Bonsor B323 (Cornish Synd.) 10 600 71.22 295 Bonsor B327 (T, Roberts) 10 850 109.93 456 Canadians (H, A. Bradle)y — 26 — (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr. 5 320 39.70 165 Do. (sands) 304 5.90 24 Cap {W. Cock} (sands) 90 23.30 96 Connemara (Connemara Synd.) 20 IC 4.517 182.76 755 Do. (sands) 4,547 763.39 3,165 Conqueror (Leppington and McConkey) 2 168 129.54 537 Csardas (Wolfshall Synd.) 10 490 278.44 1,154 Do. (sands) 309 49.65 206 Do. (simes) 100 490 278.44 1,154 Do. (sands) 309 49.65 206 Do. (simes) 100 13.50 56 Emerald (Linscott & Gibb) 5 750 111.39 474 Do. (sands) Apr. & May 780 41.42 172 Falcon Mines, Ltd 26N 2T 16.50 3,143.00 15,095 Fed Up (A. Malcolm) 5 173 102.60 425 Gaika G.M. Co., Ltd 51 C IT 3,572 796.69 3,379 Do. (sands) 1,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) 1,140 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.113 266	Bulawayo District total Gwelo District— Aiderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) — 720 45.08 157 Bell Reef Dev. Co., Ltd. clean up — 296.54 1,229 Bonsor B323 (Cornish Synd.) 10 600 71.22 295 Bonsor B327 (T, Roberts) 10 850 109.93 456 Canadians (H, A. Bradle)y — 26 — (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr. 5 320 39.70 165 Do. (sands) 304 5.90 24 Cap {W. Cock} (sands) 90 23.30 96 Connemara (Connemara Synd.) 20 IC 4.517 182.76 755 Do. (sands) 4,547 763.39 3,165 Conqueror (Leppington and McConkey) 2 168 129.54 537 Csardas (Wolfshall Synd.) 10 490 278.44 1,154 Do. (sands) 309 49.65 206 Do. (simes) 100 490 278.44 1,154 Do. (sands) 309 49.65 206 Do. (simes) 100 13.50 56 Emerald (Linscott & Gibb) 5 750 111.39 474 Do. (sands) Apr. & May 780 41.42 172 Falcon Mines, Ltd 26N 2T 16.50 3,143.00 15,095 Fed Up (A. Malcolm) 5 173 102.60 425 Gaika G.M. Co., Ltd 51 C IT 3,572 796.69 3,379 Do. (sands) 1,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) 1,140 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.113 266	Wolley Dog (Mrs. G. C. Davis)				
Gwelo District— Alderman (Williams & Woodger) 5 350 52.92 219	Gwelo District— Alderman (Williams & Woodger) 5 350 52.92 219	Do. (sands)				
Gwelo District— Alderman (Williams & Woodger) 5 350 52.92 219	Gwelo District— Alderman (Williams & Woodger) 5 350 52.92 219	Bulawayo District total			10 000 00	20 000
Alderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) ————————————————————————————————————	Alderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) ————————————————————————————————————	Bulawayo District total			10,830.03	69,500
Alderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) ————————————————————————————————————	Alderman (Williams & Woodger) 5 350 52.92 219 Do. (sands) ————————————————————————————————————					
Do. (sands)	Do. (sands)					
Bell Reef Dev. Co., Ltd. clean up — 296.54 1,229 Bonsor B323 (Cornish Synd.) 10 600 71.22 295 Bonsor B327 (T. Roberts) 10 550 109.93 456 Canadians (H. A. Bradle)y — 26 — (Copper ore treated at Falcon Mine) Mine) 30 39.70 165 Do. (sands) — 304 5.90 24 Cap (W. Cock) (sands) — 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.517 182.76 755 Do. (sands) — 4.547 763.39 3,165 Conqueror (Leppington and McConkey) 2 168 129.54 537 Csardas (Wolfshall Synd.) 10 490 278.44 1,154 Do. (sands) — 300 49.65 206 Emerald (Linscott & Gibb) 5 750 114.39 474 Do. (sands) Apr. & May — 780 41.42 172	Bell Reef Dev. Co., Ltd. clean up — 296.54 1,229 Bonsor B323 (Cornish Synd.) 10 600 71.22 295 Bonsor B327 (T. Roberts) 10 550 109.93 456 Canadians (H. A. Bradle)y — 26 — (Copper ore treated at Falcon Mine) Mine) 30 39.70 165 Do. (sands) — 304 5.90 24 Cap (W. Cock) (sands) — 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.517 182.76 755 Do. (sands) — 4.547 763.39 3,165 Conqueror (Leppington and McConkey) 2 168 129.54 537 Csardas (Wolfshall Synd.) 10 490 278.44 1,154 Do. (sands) — 300 49.65 206 Emerald (Linscott & Gibb) 5 750 114.39 474 Do. (sands) Apr. & May — 780 41.42 172					
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Do. (sands)	Do. (sands)	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Canadians (H. A. Bradle)y (Copper ore treated at Falcon		720 	$45.08 \\ 296.54 \\ 71.22$	157 1,229 295
Cap (W. Cock) (sands) 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.517 182.76 755 Do. (sands) - 4,547 763.39 3,165 Conqueror (Leppington and McConkey) 2 168 129.54 537 Csardas (Wolfshail Synd.) 10 490 278.44 1,154 Do. (sands) - 390 49.65 206 Do. (silmes) - 390 49.65 206 Emerald (Linscott & Gibb) 5 750 111.39 474 Do. (sands) Apr. & May - 780 41.42 172 Falcon Mines, Ltd. 26N 2T 16.250 3,143.00 15,095 Fed Up (A. Malcolm) 5 173 102.60 425 Gaika G.M. Co., Ltd. 5 1C 1T 3,572 796.69 3,379 Do. (sands) - 4,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) </td <td>Cap (W. Cock) (sands) 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.517 182.76 755 Do. (sands) - 4,547 763.39 3,165 Conqueror (Leppington and McConkey) 2 168 129.54 537 Csardas (Wolfshail Synd.) 10 490 278.44 1,154 Do. (sands) - 390 49.65 206 Do. (silmes) - 390 49.65 206 Emerald (Linscott & Gibb) 5 750 111.39 474 Do. (sands) Apr. & May - 780 41.42 172 Falcon Mines, Ltd. 26N 2T 16.250 3,143.00 15,095 Fed Up (A. Malcolm) 5 173 102.60 425 Gaika G.M. Co., Ltd. 5 1C 1T 3,572 796.69 3,379 Do. (sands) - 4,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands)<!--</td--><td>Do. (sands) Bell Reef Dev. Co., Ltd., clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T., Roberts) Cauadians (H. A. Bradle)y (Copper ore treated at Falcon Mine)</td><td>10</td><td>720 — 600 550 26</td><td>45.08 296.54 71.22 109.93</td><td>157 1,229 295 456</td></td>	Cap (W. Cock) (sands) 90 23.30 96 Connemara (Connemara Synd.) 20 1C 4.517 182.76 755 Do. (sands) - 4,547 763.39 3,165 Conqueror (Leppington and McConkey) 2 168 129.54 537 Csardas (Wolfshail Synd.) 10 490 278.44 1,154 Do. (sands) - 390 49.65 206 Do. (silmes) - 390 49.65 206 Emerald (Linscott & Gibb) 5 750 111.39 474 Do. (sands) Apr. & May - 780 41.42 172 Falcon Mines, Ltd. 26N 2T 16.250 3,143.00 15,095 Fed Up (A. Malcolm) 5 173 102.60 425 Gaika G.M. Co., Ltd. 5 1C 1T 3,572 796.69 3,379 Do. (sands) - 4,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) </td <td>Do. (sands) Bell Reef Dev. Co., Ltd., clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T., Roberts) Cauadians (H. A. Bradle)y (Copper ore treated at Falcon Mine)</td> <td>10</td> <td>720 — 600 550 26</td> <td>45.08 296.54 71.22 109.93</td> <td>157 1,229 295 456</td>	Do. (sands) Bell Reef Dev. Co., Ltd., clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T., Roberts) Cauadians (H. A. Bradle)y (Copper ore treated at Falcon Mine)	10	720 — 600 550 26	45.08 296.54 71.22 109.93	157 1,229 295 456
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Do. (sands)	Do. (sands)	Do. (sands) Bell Reef Dev. Co., Ltd., clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr Do. (sands) Cap (W. Cock) (sands)	10	720 600 850 26 320 304	45,08 296,54 71,22 109,93 — 39,70 5,90	157 1,229 295 456 — 165 24
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Do. (sands)	Do. (sands)	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr Do. (sands) Cap (W. Cock) (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey)	10 10 10 - 5 20 1C	720 600 \$50 26 320 304 90 4.517 4,547	45.08 296.54 71.22 109.93 	157 1,229 295 456 — 165 24 96 755 3,165
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Fed Cp (A. Marcolm) 5 173 102.60 425 Gaika G.M. Co., Ltd. 5 1C 1T 3,572 796.69 3,379 Do. (sands) 4,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) 1,110 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.11 266	Fed Cp (A. Marcolm) 5 173 102.60 425 Gaika G.M. Co., Ltd. 5 1C 1T 3,572 796.69 3,379 Do. (sands) 4,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) 1,110 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.11 266	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr Do. (sands) Cap (W. Cock) (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfshall Synd.) Do. (sands) Do. (sands) Do. (simes)	10 10 10 5 20 1C 2 10	720 600 550 26 320 304 90 4.517 4,547 168 490 390 100 750	45.08 296.54 71.22 109.93 39.70 5.90 23.30 1×2.76 763.39 129.54 278.44 49.65 13.50 114.39	157 1,229 295 456 — 165 24 96 755 3,165 537 1,154 206 56 474
Gaika G.M. Co., Ltd	Gaika G.M. Co., Ltd	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr Do. (sands) Cap (W. Cock) (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfshall Synd.) Do. (sands) Do. (sands) Do. (simes)	10 10 10 5 20 1C 2 10	720 600 550 26 320 304 90 4.517 4,547 168 490 390 100 750 780	45.08 296.54 71.22 109.93 39.70 5.90 23.30 182.76 763.39 129.54 278.44 49.65 13.50 114.39 41.42	157 1,229 295 456 ——————————————————————————————————
Do. (sands) - 4,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) - 1,140 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.13 266	Do. (sands) - 4,500 877.11 3,720 Glen Hume (Glen Hume Synd.) 10 1,190 132.95 551 Do. (sands) - 1,140 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.13 266	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) (Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr Do. (sands) Conputer (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfshall Synd.) Do. (sands) Do. (sinds) Do. (sinds) Do. (sinds) Emerald (Linscott & Gibb) Do. (sands) Falcon Mines, Ltd	5 20 1C 20 1C 5 30 X 2T	720 600 550 26 320 304 90 4.547 4,547 168 490 390 160 750 750 750 16,250	45.08 296.54 71.22 109.93 — 39.70 5.90 23.30 182.76 763.39 129.54 278.44 49.65 13.50 114.39 41.42 3,143.00	157 1,229 295 456 — 165 24 96 755 3,165 537 1,154 206 474 172 15,005
Glen Hume (Glen Hume Synd.) 10 1,190 132,95 551 Do. (sands) — 1,140 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.18 266	Glen Hume (Glen Hume Synd.) 10 1,190 132,95 551 Do. (sands) — 1,140 63.82 265 Glen Rosa (Gien Rosa Synd.) 10 539 64.18 266	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr. Do. (sands) Cap (W. Cock) (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfshall Synd.) Do. (simes) Do. (simes) Emerald (Linscott & Gibb) Do. (sands) Apr. & May Falcon Mines, Ltd. Ped Up (A. Malcolm)	10 10 10 5 20 1C 21 10 5 5 5 5 5 7 5 7	720 600 550 26 320 304 517 4,547 168 490 390 100 750 750 750 16.250 173	45.08 296.54 71.22 109.93 39.70 5.90 23.30 1×2.76 763.39 129.54 278.44 49.65 13.50 114.39 41.42 3,143.00 102.60	157 1,229 295 456
Do. (sands)	Do. (sands)	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr. Do. (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfshal Synd.) Do. (sands) Do. (sands) Emerald (Linscott & Gibb) Do. (sands) Apr. & May Falcon Mines, Ltd. Ped Up (A. Malcolm) Gaika G.M. Co., Ltd. Do. (sands)	10 10 10 5 20 1C 21 10 5 5 5 5 5 7 5 7	720 — 600 550 26 320 304 90 4.517 4,547 168 490 100 750 16.250 173 3,572	45.08 296.54 71.22 109.93 — 39.70 5.90 23.30 182.76 763.39 129.54 49.65 13.50 114.39 41.42 3,143.00 102.60 796.69	157 1,229 295 456 — 165 244 96 755 3,163 537 1,154 206 474 172 15,095 425 3,379
		Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr. Do. (sands) Cap (W. Cock) (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfshall Synd.) Do. (simes) Do. (simes) Emerald (Linscott & Gibb) Do. (sands) Apr. & May Falcon Mines, Ltd. 29 Fed Up (A. Malcolm) Gaika G.M. Co., Ltd. 5 Do. (sands) Clen Hume (Glen Hume Synd.)	5 20 1C 20 1C 20 1C 5 3 X 2T 5 11C 1T	720 600 550 26 320 304 90 4.547 4,547 168 490 390 100 750 750 173 3,572 1,560	45.08 296.54 71.22 109.93 — 39.70 5.90 23.30 182.76 763.39 129.54 278.44 49.65 13.50 114.39 41.42 3,143.00 192.60 796.69	157 1,229 295 456 — 165 24 96 755 3,163 537 1,154 206 474 172 15,095 425 3,379 3,720
Do (canda) 400 95.40 148	Do. (sands) — 400 35.49 147	Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr Do. (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfshall Synd.) Do. (sainds) Do. (simes) Emerald (Linscott & Gibb) Do. (sands) Apr. & May Falcon Mines, Ltd	10 10 10 20 1C 20 1C 1T 10 10 10 10 10 10 10 10 10 10 10 10 10	720 600 550 26 320 304 517 4,547 168 490 390 100 750 780 173 3,572 1,500 1,190	45.08 296.54 71.22 109.93 39.70 5.90 23.30 1\2.76 763.39 129.54 278.44 49.65 13.50 114.39 41.42 3,143.00 102.60 796.69 877.11 132.95	157 1,229 295 456 — 165 24 96 755 3,165 56 474 172 15,095 425 3,379 3,720 551
Do. (sands) — 400 35.19 117		Do. (sands) Bell Reef Dev. Co., Ltd. clean up Bonsor B323 (Cornish Synd.) Bonsor B327 (T. Roberts) Canadians (H. A. Bradle)y (Copper ore treated at Falcon Mine) Cactus (Renton & Gray) Apr. Do. (sands) Connemara (Connemara Synd.) Do. (sands) Conqueror (Leppington and McConkey) Csardas (Wolfsha.l Synd.) Do. (sands) Do. (sands) Emerald (Linscott & Gibb) Do. (simes) Emerald (Linscott & Gibb) Do. (sands) Con (sands) Con (sands) Do. (sands) Do. (sands) Do. (sands) Chen Lud. 5 Do. (sands) Glen Hume (Ghen Hume Synd.) Do. (sands) Clen Rosa (Gien Rosa Synd.)	10 10 10 20 1C 20 1C 210 55 50X 2T 10 1T	720 	45.08 296.54 71.22 109.93 — 39.70 5.90 23.30 182.76 763.39 129.54 278.44 49.65 13.50 114.39 41.42 3,143.00 102.60 796.69 877.11 132.95 63.82 64.18	157 1,229 295 456 — 165 24 96 755 3,163 537 1,154 266 474 172 15,095 423 3,379 3,720 551 265 266

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	Nord		"Yield.	Value £		No of stange	Tomb treated	Yacld	Value.
$\begin{array}{cccc} \operatorname{Gr}(d(e(A,P), (e(A,A,M)))) & = L(1), \\ \operatorname{Dr}(d(e(A,P), (e(A,A,M)))) & = L(1). \end{array}$		6.3 (2) 8,439	5,353 51 1,813 68	22,815 7,617	Monte Carlo (Monte Carlo Syn) Owl A. Rolfe)	11	120	70.41 566.08	2,317
D compared to the state of the		2,276	725.51	3.057	Do. (sands)	111	1,562	110.01	1,737
Description of contrates Get A Paganesa (W. H. Perd		294 604	389 49 206,70	1,636 857	Owl Ext Cribb & Scear Do. (sands	10	$\frac{1,557}{1,330}$	$\frac{350}{112} \frac{11}{65}$	1,451 467
Tre Sar L.) Gretna Green A. Malcolm	131	445	71.52 71.71	295 310	Pomposo (A. Knott) Revie (R. R. Artken,	2 \	250 721	16 34 137 00	192 568
Hellsche (Graham & Shancey Ingomondo (F. C. Luxat	.5 H	150 580	31-91 125,11	132 519	Do. (sands) Seigneury (Seigneury Syn.)	10	577	$\frac{93.57}{114.77}$	388 476
D) (sands) Lovy ist (B. Bertolda)	3	450 98	28 51 27 21	118 113	Do. (sands) Tel-el-Kehir (Volk & Kerr - lean	-	150	16.76	69
Margal J. T. Woods . Moss W. M. James)	5	15 950	6 25 182 96	26 2,602	np	-	1	13 69	57
Pondo F C. Luxat	5 111	900	112.95	168	Tssessebe (Macfarlane & Clesh; m) Venice (Venice Syn I)	1.	400 500	211 97	879
Po. (sands) Renvyle (A. & B. Synd)		100	31.18	131	Do. (sands) Washington (1. J. Minaar	5	800 200	161-55 70-00	670 291
(sinds) April clean up Do, do, May clean up	1	100 120	8.54 6,96	35 29	Do. (sands) What Cheer (II. Moser)	310	160 735	20,00 203-34	81 813
Snark (J. G. W. Iter Fabekwe I (A. N. Tyrrell)	.5] 0	351	58-12 89.14	212 370	Do. (sands) Yellowstone (S. II. Hemlock)	5	525 250 •	36,65 11,77	151 173
Trixie (S. Levin)	10	$\frac{1.701}{760}$	195-32 41.36	$\frac{2,053}{184}$	Do. (sands)		525	15.19	200
Vaux (Bentley & Soder) Broken retort Feb.		-	10 42	1.1	Hartley District total			12.671.90	52,847
Do. May	2	120 350	17 80 106 75	74 113	Louigi ndi District -				
Veracity (L. R. Evans) Do. sands)		192	99,91	111	Almvial			22.19	92
Verdun Trib, Synd.) Walrus (J. Jones) April	. j	700 100	100,58 19-90	817 82	Anglian (Schapke & Quarrie) Angwa B (F. L. Standen)	5 5	260 670	$\frac{17.62}{58.14}$	$\frac{197}{241}$
Wanderer (Schikwe, G.M., Lt l Zabonkwe (Holmes & Urquhart)	1GR 5	$\frac{13,680}{892}$	2,294.68	9,512	Chiringa Chiringa Syn.) Apr Crescent (Crescent Syn. additional	5	650	52.42	217
Do. (sends) Do. valimes	-0.00	680 324	218,31	1,029	value, Sept., 1916 Dalton (F. H. Dalton)	3	10	27.23	11 113
Gv lt District total			20,815.85	87.725	Eldorado Banket G.M. Co., Ltd. 20 Do. (sands)		1,018	1,551.67 853,96	$\frac{6.591}{3,022}$
					Golden Kopje Prop. Mines (slags)			201.74	\$33 283
MASHO	NALANI	D.			Maggiemae (J. McMurdon) Do. (sands)	-2	$\frac{250}{200}$	* 68,37 23,81	50
HARTLE C DISTRICT					Silverside (Silverside Syn.) White Horse (Hinze & Harding)	2	275	1.69 55.63	3.75
	_				Pannings (C. Oswald)			1.46	6
Acorn (Anzae Synd.)	.5	283	256.32	1.662					
Alexandra (Alexandra Synd.) Do. (sands)	5 2 —	283 250 290	256.32 260.81 216.49	1.662 1.681 897	Logamundi District total			3,001.93	12.670
Alexandra (Alexandra Synd.)	2	250	260.81 216.19	1.081					
Alexandra (Alexandra Synd.) D., (sands) Arl; nder (Keir & Rooke) slags, September, 1916 Balcaskie C. E. Strange) pannings	- - -	250 290 —	260.81 216.19 — 1.99	1,681 897 11 8	Logamundi District ()tal Mazoe District— Day Dawn (Day Dawn Tribute)	5	5.5 996	3,001.93	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arl: nder (Keir & Rooke) slags. September, 1916 Balcaskie C. E. Strange) pannings Buff. lo E. A. Begbie) Cam & Mator G. M. Co., Ltd	2 - - 5 RP	250 290 — — 470 12.131	260.81 216.19 ————————————————————————————————————	1,681 897 11	Logamundi District (stal Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands)	2	$\frac{220}{413}$	21.31 21.71 132.30	12.670 88 50 548
Alexandra (Alexandra Synd.) Do. (sands) Arl: inder (Keir & Rooke) slags, September, 1916 Baidaskie C. E. Strange) pannings Buff.lo E. A. Be_bie) Cam & M (for G.M. Co., Ltd., Campania (G. C. Hooper) Do. (sands)	2 - - 5 RP 3 -	250 290 ——————————————————————————————————	260.81 216.49 	1,081 897 11 8 316 15,352	Logamundi District (Mal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. 82	2 5	220 413 730 1.900	21.31 21.71 132.30 77.41 521.05	12.670 88 50 548 521 3,499
Alexandra (Alexandra Synd.) Do. (sands) Arl: nder (Keir & Rooke) slags, September, 1916 Balcaskie C. E. Strangs) pannings Buff.lo E. A. Belbie) Cam & Motor C.M. Co., Ltd., Campania (G. C. Hooper) Do. (sands) Do. (slimes Challenge (J. E. Poulton)	2 - - 5 RP 3 - - 2	250 290 470 12.131 427 133 291 237	260.81 216.49 1.99 \$3,57 3,620.83 4 • \$9.89 160.02	1,081 897 11 8 316 15,352 373 403	Logamundi District (Mal Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands)	2 5	$\frac{220}{413}$ $\frac{730}{730}$	21.31 21.71 132.30 77.41	12.670 88 90 548 521
Alexandra (Alexandra Synd.) Do. (sands) Arl:nder (Keir & Rooke) slags. September, 1916 Balcaskie C. E. Strange) pannings Buff.lo E. A. Begbie) Cam & M. (or G. M. Co., Ltd., Campania (G. C. Hooper) Do. (slands) Do. (slimes Challenge (J. E. Poulton) Cirl (H. F. Wilson)	2 - - 5 RP 3 -	250 290 470 12.131 427 133 - 291 237 40	260.81 216.19 1.99 83.57 3,620.83 4 82.89 160.02 9.13	1,081 897 11 8 316 15,352 373 403 38	Mazoe District (Mal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. 82 Do. (sands) Kings.ey Hoard (A. S. Warwick) Do. (sands) clean up	2 5 N 2T — 5	220 413 730 1.900 1.900 601	21.31 21.71 132.30 77.44 \$21.05 535.22 10.25 2.28	12.670 88 90 548 521 3,499 2,260 167 9
Alexandra (Alexandra Synd.) D.s. (sands) Arl: nder (Keir & Rooke) slags. September, 1916 Balcaskie C. E. Strangs) pannings Buff.lo E. A. Begbie) Cam & Motor C. M. Co., Ltd., Campania (G. C. Hooper) D.s. (sands) D.s. (slimes Challenge (A. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster rull Beaugs.rom)	2 - - 5 RP 3 - - 2	250 290 470 12.131 427 133 291 237	260.81 216.49 1.99 \$3,57 3,620.83 4 • \$9.89 160.02	1,081 897 11 8 316 15,352 373 403	Mazoe District (stall) Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. 8: Do. (sands) Kingsey Hoard (A. S. Warwick) Do. (sands) clean up Mitte 5 (E. W. L. Noaks) Do. (sands) Payeril of Peak (G. Y. Souther)	N 2T 5 5 - 2	220 413 730 1.900 4.900 601 	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.58 23.46	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September, 1916 Balcaskie C. E. Strange) pannings Buff. lo E. A. Begbie) Cam & Motor G. M. Co., Ltd Campania (G. C. Hooper) Do. (slands) Do. (slands) Cirl (H. F. Wilson) Copenhagen & Victory Webster rul Beangs rom Do. (swids) Dr. (swids) Dr. (swids) Dr. (swids)	2 - 5 RP 3 - 2 5	250 290 470 12.131 427 133 294 237 40 300 320 1,795	260.81 216.49 1.99 \$3,57 3,620.83 4 * \$9.89 160.02 9.13 76.71 28.90 83.58	1,081 897 11 8 316 15,352 373 403 38 318 120 346	Mazoe District (stall Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands) Lion 1 (J. M. Laing) Lion (sands)	X 2T 5 7 2 7 2 7 2 C	220 413 730 1.900 4.900 601 	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buff. Lo E. A. Be, bio! Cam & M. dor G. M. Co., Ltd Campania (G. C. Hooper) Do. (sands) Do. (slimes Challenge (J. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster ru I Beangs.rom Do. (sands) Dolley I W. (Macdonald & Sale) Pra. (sands) Dradnought (Dreadmought Syr).	2 - - 5 RP 3 - 2 5	250 290 470 12.131 427 133 - 291 237 40 300 320 1.795	260.81 216.19 1.99 83.57 3,620.83 4 80.89 160.02 9.13 76.71 28.90 83.58 125.96	1,681 897 11 8 316 15,352 373 403 38 318 120 346 522	Mazoe District (Mal.) Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Liron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. S. Do. (sands) Kingsey Hoard (A. S. Warwick) Do. (sands) Kingsey Hoard (A. S. Warwick) Do. (sands) Do. (sands) Po. (sands) Po. (sands) Po. (sands) Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa (R. Aserman)	X 2T 5 5 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	220 413 730 1.900 4.900 601 	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05	12.670
Alexasdra (Alexandra Synd.) Do. (sands) Arl:nder (Keir & Rooke) slags. September, 1916 Baidaskie C. E. Strange) pannings Buff.lo E. A. Belbie) Cam & M. (for G.M. Co., Ltd., Campania (G. C. Hooper) Do. (slands) Do. (slimes Challenge (A. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster (nd. Beangs.rom) Do. (sands) Do. (sands) Do. (sands) Copenhagen & Victory Webster (nd. Beangs.rom) Do. (sands) Do. (sands) Eiffe, G. ands Dreadmought (Dreadmought Syr), sands) Eiffe, Bine Willenghly's Con.	2 	250 290 470 12.131 427 133 294 237 40 300 320 1.795 1,795	260.81 216.19 1.99 \$3,57 3,620.83 4 • \$2.89 160.02 9.13 76.71 28.90 \$3.58 125.96	1,681 897 11 8 316 15,352 373 403 38 318 120 316 522 152	Mazoe District (Mal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. 82 Do. (sands) Do. (sands) Do. (sands) clean up Mitve 5 (E. W. L. Noaks) Do. (sands) Peveril of Peak G. (E. N. Southey) Promoter (B. H. Jones) sands Rosa (R. Aserman) Do. (sands) S.D.C. (lusol. Est. H. S. Plant)	2 5 5 7 2 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	220 413 730 1.900 4.900 601 	21.31 21.71 132.30 77.44 \$21.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02	12.670
Alexasdra (Alexandra Synd.) Do. (sands) Arl:nder (Keir & Rooke) slags, September, 1916 Balcaskie C. E. Strange) pannings Buff.lo E. A. Belbie) Cam & M. dor G.M. Co., Ltd., Campania (G. C. Hooper) Do. (sands) Do. (slimes Chalenge (J. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster roll Beangs.rom) Do. (sands) Do. (sands) Ethe. (sands) Do. (sands) Copenhagen & Victory Webster roll Beangs.rom) Do. (sands) Ethe. Shape Will-ngliby's Con. Co., Ltd. Do. (sands)	2 	250 290 470 12.131 427 1337 40 300 320 1.795 1.795 550 1.486 720	260.81 216.49 1.99 83.57 3,620.83 4 80.89 160.02 9.13 76.71 28.90 83.58 125.96 36.75 477.42 19.92	1.681 897 11 8 316 15,352 373 403 38 120 346 522 152 1,979 83	Logamundi District (Mal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. 8: Do. (sands) Kingsay Hoard (A. S. Warwick) Do. (sands) clean up Mitre 8 (E. W. L. Noaks) Lo. (sands) Peveril of Peuk G. G. N. Southey Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa (R. Aserman) Do. (sands) S. D.C. (Insol. Est. H. S. Plant) P.ant) (April and May Do. (skimntings)	2 2 3 2 3 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 220 \\ 413 \\ 730 \\ 1,900 \\ 1,900 \\ 601 \\ \hline \\ 85 \\ 50 \\ 65 \\ 2,364 \\ 1,700 \\ 525 \\ 554 \\ 2,612 \\ 61 \end{array}$	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 10.27	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arl: nder (Keir & Rooke) slags. September, 1916 Balcaskie C. E. Strange) pannings Buff. lo E. A. Be, bio) Cam & M. dor G. M. Co., Lt.L., Campania (G. C. Hooper) Do. (sands) Do. (slimes Chal.enge (J. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster ru I Beangs.rom Do. (sands) Dradnought (Dreadmought Syr), sands) Eiffe, Bine Willoughdy's Con. Co., Lt.L. Do. (sands) Eileen Alannah Min, Co., Ltd. 1: Do. (sands)	2	250 290 470 12.131 427 133 237 40 300 320 1.795 1.795 550 1.486 720 4.305 5.500	260.81 216.49 1.99 \$3,57 3,620.83 * * 89.89 160.02 9.13 76.71 25.90 83.58 125.96 36.75 477.42 19.92 372.04 1.358.68	1,681 897 11 8 316 15,352 373 403 38 318 120 346 522 152 1,979 83 1,542 5,640	Mazoe District (Mal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Life (Mash.) G.M. Co., Ltd. St. Do. (sands) Simberley (Mash.) G.M. Co., Ltd. St. Do. (sands) Do. (sands) Do. (sands) clean up Mitve 5 (E. W. L. Noaks) Do. (sands) Peveril of Peak G. G. X. Southey, Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa (R. Aserman) Do. (sands) S. D.C. (Insol. Est. H. S. Plant) Plant) (April and May Do. (skinmings) Shashi 1 Shashi Synd.)	2 5 N 2T 5 2 2 C 2 C 2 1 1 2 2 1 1 2 2	220 413 730 1.900 1.900 601 	21.31 21.71 132.30 77.44 \$21.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buff. Lo. E. A. Beckie) Cam & M. dor G. M. Co., Ltd., Campania (G. C. Hooper) Do. (slands) Do. (slimes Challenge (A. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster rol Beangs.rom) Do. (studs) Drhy I W (Macdonald & Sale) Proc. (sands) Drealmonght (Dreadmought Syr), sands Eiffer, Brue Willengthy's Con. Co., Ltd. Do. (sands) Eileen Alamah Min, Co., Ltd. 1:	2	250 290 470 12.131 427 1337 40 300 320 1.795 1.795 550 1.486 7.267	260.81 216.19 1.99 \$3.57 3,620.83 4 \$82.89 160.02 9.13 76.71 28.90 \$3.58 125.96 36.75 477.42 19.92 372.04 1.358.68 105.73	1,681 897 11 8 316 15,352 373 403 38 315 120 346 522 152 1,979 83 1,542 5,640 811 143	Logamundi District (Mal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. 8: Do. (sands) Kingsay Hoard (A. S. Warwick) Do. (sands) clean up Mitre 8 (E. W. L. Noaks) Lo. (sands) Peveril of Peuk G. G. N. Southey Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa (R. Aserman) Do. (sands) S. D.C. (Insol. Est. H. S. Plant) P.ant) (April and May Do. (skimntings)	2 2 3 2 3 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 220 \\ 413 \\ 730 \\ 1,900 \\ 1,900 \\ 601 \\ \hline \\ 85 \\ 50 \\ 65 \\ 2,364 \\ 1,700 \\ 525 \\ 554 \\ 2,612 \\ 61 \end{array}$	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 10.27	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arl: nder (Keir & Rooke) slags. September, 1916 Balcaskie C. E. Strange) pannings Buff. lo E. A. Be, bio) Cam & M. stor G. M. Co., Lt.L., Campania (G. C. Hooper) Do. (sands) Do. (slimes Chal.enge (J. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster ru I Beangs.rom Do. (sands) Dradnought (Dradnought Syr), sands) Eiffe, Bine Willonghdy's Con. Co., Lt.L. Do. (sands) Eileen Alannah Min, Co., Ltd. I: Do. (sands) Enney Ext. (E. G. Goodyer Do. (sands) Enney Ext. (C. G. Goodyer Gelsgow Mines, Ltd.	2 - 5 RP 3 - 2 5 5 C - 10 2N 2T 5	250 290 470 12.131 427 133 294 237 40 300 320 1.795 1.795 550 1.486 720 4.305 5.500 760	260.81 216.19 1.99 \$3.57 3,620.83 * * \$9.89 160.02 9.13 76.71 28.90 \$3.58 125.96 36.75 477.42 19.92 372.04 1.358.08	1,681 897 11 8 316 15,352 373 403 38 318 120 346 522 152 1,979 83 1,542 5,630 811	Mazoe District (stall) Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. S. Do. (sands) Kingsey Hoard (A. S. Warwick) Do. (sands) Mitre 5 (E. W. L. Noaks) Do. (sands) Peveril of Peak G. G. N. Southey, Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa 'R. Aserman' Do. (sands) S D.C. Insol. Est. H. S. Plant) P.ant (April and May Do. (skimmings) Shashi 1 Shashi Synd.) Vesnvins C. (Cunningham &	2 5 N 2T 5 2 2 C 2 C 2 1 1 2 2 1 1 2 2	220 413 730 1.900 4.900 601 	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buffeldo E. A. Beckie) Cam & Motor G.M. Co., Ltd., Campania (G. C. Hooper) Do. (sands) Do. (slimes Chalenge (A. E. Poulton) Copenhagen & Victory Webster rul Beangs.rom Do. (sands) Dradhought (Dradhought Syr). sands) Eiffe. Buse Willenghby's Con. Co., Ltd. Do. (sands) Eiffen Alamah Min. Co., Ltd. in Do. (sands) Emry Ext. (E. G. Goodyer Do. (sands) Glenetim Pickstone (v.M., Ltd.) Glenetim Pickstone (v.M., Ltd.)	2	250 290 470 12.131 427 133 294 237 40 320 1.795 1.795 550 1.486 720 4.805 5.500 781 611 336 611 336 1.060	260.81 216.19 1.99 83.57 3,620.83 4 80.89 160.02 9.13 76.71 28.90 83.58 125.96 477.42 19.92 372.04 1.358.68 10.75 10.75 34.57 172.14 53.65 53.67	1,681 897 11 8 316 15,352 373 403 38 315 120 346 522 152 1,979 83 1,542 5,640 811	Mazoe District (stal Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. S. Do. (sands) Kings.ey Hoard (A. S. Warwick) Do. (sands) Mitre 5 (E. W. L. Noaks) Do. (sands) Peveril of Peak G. (J. N. Southey, Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa 'R. Aserman' Do. (sands) S D.C. Insol. Est. H. S. Plant) P.anty (April and May Do. (skimmings) Shashi 1 Shashi Synd.) Vesnyins C. (Cunningham & Allison) Mazoe District (stal.)	2 5 N 2T 5 2 2 C 2 C 2 1 1 2 2 1 1 2 2	220 413 730 1.900 4.900 601 	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37 102.27 1.00 11.10	12.670
Alexasdra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buff.lo E. A. Beckie) Cam & M. (for G. M. Co., Ltd., Campania (G. C. Hooper) Do. (slands) Do. (slimes Chalenge (d. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster and Beangs.roon) Do. (studs) Drivy 1 W (Macdonald & Sale) Po. (studs) Drealmought (Dreadmought Syr). sands) Eiffe. Rine Willengthy's Con. Co., Ltd. Do. (sands) Eiffe. Rine Willengthy's Con. Co., Ltd. Do. (sands) Eiffen Alannah Min, Co., Ltd. 1: Do. (sands) Enney Ext. (E. G. Goodyer Do. (sands) Chercin Pickstone (r.M., Ltd.) Do. (sands) Glenetim Pickstone (r.M., Ltd.)	2 T	250 290 470 12.131 427 133 294 237 40 320 1.795 550 4.305 5.500 700 381 611 336 1.000 600 650	260.81 216.19 1.99 \$3,57 3,620.83 * * \$9.89 160.02 9.13 76.71 25.90 \$3.58 125.96 30.75 477.42 179.92 372.04 1.358.68 105.73 34.57, 172.11 53.68 503.61 503.61 503.61	1,681 897 11 8 316 15,352 313 403 38 318 120 316 522 152 1,579 83 1,542 5,640 811 143 714 222 2,331 365 522	Mazoe District (Mal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. 82 Do. (sands) Co. (sands) Do. (sands) Co. (sands) Do. (sands) Do. (sands) Peveril of Peak G. G. N. Sauthey Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa (R. Aserman) Do. (sands) S.D.C. (Insol. Est. H. S. Plant) P.ant) (April and May Do. (skimmings) Shashi 1 Shashi Synd.) Vesnyius C. (Cunningham & Allison Mazoe District—Odies P. Zaffere)	2 2 T 2 T 2 T 2 T 2 T 2 T 2 T 2 T 2 T 2	220 413 730 1.900 1.900 601 85 50 65 2.304 1.700 525 554 61 61 600	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37 102.27 4.00 11.40 158.97 2.266.45	12.670
Alexasdra (Alexandra Synd.) Do. (sands) Arl:nder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buff.lo E. A. Be-bie) Cam & M. (for G.M. Co., Ltd., Campania (G. C. Hooper) Do. (slands) Do. (slimes Chalenge (A. E. Poulton) Cirl (H. F. Wilson) Copen (agen & Victory Webster and Beangs.rom) Do. (sands) Dright W (Macdonald & Sale) Po. (sands) Drealnought (Dreadnought Syr). sands) Eiffe. Bine Willenghby's Con. Co., Ltd. Do. (sands) Eileen Alamah Min. Co., Ltd. 1: Do. (sands) Einer E. C. G. Goodyer Do. (sands) Gles w Mins., Ltd. Do. (sands) Glene tim Pickstone (c.M. Ltd.) Do. (sands)	2 P	250 290 470 12.131 427 133 294 237 40 300 320 1.795 1.795 550 4.305 700 381 681 850 850 850	260.81 216.19 1.99 \$3.57 3,620.83 * * \$9.89 160.02 9.13 76.71 28.90 \$3.58 125.96 36.75 477.42 19.92 372.04 1.358.08 100.53 34.57 172.11 53.68 563.01 88.98 84.87 516.17	1,681 897 11 8 316 15,352 373 403 38 318 120 346 522 152 1,542 5,640 811 143 714 1222 2,331 352 2,265 7,74	Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. S. Do. (sands) Kings.ey Hoard (A. S. Warwick) Do. (sands) clean up Mitre 5 (E. W. L. Noaks) Do. (sands) clean up Poo. (sands) Peveril of Peak G. G. N. Southey, Promoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa 'R. Aserman' Do. (sands) S. D.C. Insol. Est. H. S. Plant) P. (and) (April and May Do. (skimmings) Shashi 1 Shashi Shashi Shashi (Cunningham & Allison Mazoe District total	2 T	220 413 730 1.900 (601 	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 31.37	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buffeldo E. A. Beckie) Cam & Motor G.M. Co., Ltd., Campania (G. C. Hooper) Do. (sands) Do. (slimes Chalenge (J. E. Poulton) Corl (H. F. Wilson) Copenhagen & Victory Webster end Beangs.rom Do. (sands) Drive 1 W (Macdonald & Sale) Po. (sands) Eiffe. Bine Willoughby's Con. Co., Ltd., Do. (sands) Eiffe. Bine Willoughby's Con. Co., Ltd., Do. (sands) Einen Alannah Min. Co., Ltd. 1: Do. (sands) Emrey Ext. (C. G. Goodyer Do. (sands) Glenetin Pickstone (r.M., Ltd.) Do. (sands) Glenetin Pickstone (r.M., Ltd.) Glenetin Pickstone (r.M., Ltd.) Colden Velly v I. Ma'ya Co.) Po. (sands) Glenetin Pickstone (r.M., Ltd.) Colden Velly v I. Ma'ya Co.) Po. (sands) Lenetin Pickstone (r.M., Ltd.) Do. (sands) Colden Velly v I. Ma'ya Co.) Po. (sands) Lenetin Pickstone (r.M., Ltd.) Do. (sands) Colden Velly v I. Ma'ya Co.)	2 P P P P P P P P P P P P P P P P P P P	250 290 470 12.131 427 1337 40 300 320 1.795 1.795 550 1.486 720 4.305 7.500 7.60 381 611 331 611 600 850 1.060 600 850 270	260.81 216.19 1.99 \$3.57 3,620.83 * 89.89 160.02 9.13 76.71 28.90 83.58 125.96 36.75 477.42 19.23 372.04 1.358.08 100.53 34.57 172.14 53.68 563.61 88.98 54.87 563.61 77.12 17.23 1	1,681 897 11 8 316 15,352 373 403 38 318 120 346 522 152 1,979 83 1,542 2,381 143 368 352 2,205 714 442 442 444 444 444 444 444 444 444 4	Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. S. Do. (sands) Kingsey Hoard (A. S. Warwick) Do. (sands) clean up Mive 5 (E. W. L. Noaks) Pos. (sands) clean up Mive 5 (E. W. L. Noaks) Pomoter 1 F. C. Croxford) Promoter (B. H. Jones) sands Rosa 'R. Aserman' Do. (sands) S.D.C. (Insol. Est. H. S. Plant) P.ant) (April and May Do. (skinmings) Shashi 1 Shashi Synd.) Vesnvius C. (Cunningham & Allison Mazoe District total Salisbury District— Alpes (P. Zaffere) Alwee (J. Insol. & Hands) Beatrice New Beatrice G.M. (Co.) D. Sands)	2 T	220 413 730 1.900 1.900 601 85 50 65 2.304 1.700 525 584 2.612 61 600	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37 102.27 1.00 11.40 158.97 2.266.45	12.670
Alexandra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buffeldo E. A. Beckie) Cam & Motor G.M. Co., Ltd., Campania (G. C. Hooper) Do. (sands) Do. (slimes Chalonge (A. E. Poulton) Copenhagen & Victory Webster red Beangs.rom Do. (sands) Dradhought (Dradhought Syr). sands) Eiffe. Buse Willenghby's Con. Co., Ltd. Do. (sands) Eiffe. Buse Willenghby's Con. Co., Ltd. Co., (sands) Eiffe. Buse Willenghby's Con. Co., Ltd. Do. (sands) Eiffe. Goodyer Do. (sands) Gleben tim Pickstone (c.M., Ltd.) Do. (sands) Golden Vell y J. Ma's & Co.) Po., (sands) Do. (sands) Length A. E. Wan'l Do. (sands) Length A. E. Wan'l Do. (sands)	2 N 2T 5 1C 10 1P 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	250 290 290 470 12.131 421 133 294 237 40 300 320 1.795 550 1.486 720 4.305 5.500 700 611 336 611 336 611 611 336 51 611 336 611 336 611 336 611 336 611 336 611 336 611 336 611 336 611 336 611 337 611 611 611 611 611 611 611 611 611 61	260.81 216.19 1.99 \$3.57 3,620.83 4 80.89 160.02 9.13 76.71 28.90 \$3.58 125.96 36.75 477.42 19.92 372.04 1.358.68 105.33 364.57 172.14 53.68 563.01 88.98 105.33 10	1,681 897 11 8 316 15,352 373 403 403 318 120 346 522 152 1,979 811 143 714 222 2,331 368 714 714 714 714 716 717 717 717 717 717 717 717	Mazoe District ()tal Mazoe District— Day Dawn (Day Dawn Tribute) Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. S. Do. (sands) Lo. (sands) (clean up	2 2T	220 413 730 1.900 1.900 601 85 50 65 2.304 1.700 525 554 61 61 600	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37 102.27 1.00 11.40 158.97 2.266.45	12.670
Alexasdra (Alexandra Synd.) Do. (sands) Arlinder (Keir & Rooke) slags. September. 1916 Balcaskie C. E. Strange) pannings Buff.lo E. A. Be,biel	2 P	250 290 470 12.131 427 133 294 237 40 320 1.795 550 4.305 550 4.305 550 381 640 650 650 210 220 240 250 260 260 260 260 260 270 270 270 270 270 270 270 270 270 27	260.81 216.19 1.99 \$3,57 3,620.83 * * \$0.89 160.02 9.13 76.71 25.90 \$3.58 125.96 30.75 477.42 19.92 372.04 1.358.68 105.73 34.57, 172.11 85.98 \$4.87 510.47 172.16	1,681 897 11 8 316 15,352 15,352 15,352 152 152 152 152 1,542 5,640 811 143 714 222 2,331 368 352 2,205 714 426 70 151 161 161 161 161 161 161 161	MAZOE DISTRICT— Day Dawn 'Day Dawn Tribute, Do. (sands) Duke of Cornwall (Micky Syn.) Iron 1 (J. M. Laing) Kimberley (Mash.) G.M. Co.,Ltd. S. Do. (sands) No. (sands) Kings.ey Hoard (A. S. Warwick) Do. (sands) clean up Mitre S 'E. W. L. Noaks) Do. (sands) clean up Poo. (sands) Peveril of Peak G. G. N. Southey, Promoter I F. C. Croxford) Promoter (B. H. Jones) sands Rosa 'R. Aserman' Do. (sands) S D.C. (Insol. Est. H. S. Plant) Plant) (April and May Do. (skimmings) Shashi 1 Shashi Synd.) Vesnyins C. (Cunningham & Allison) Mazoe District total SMISBURY DISTRICT— Albes (P. Zaffere) Alwer (J. Junson & Hands) Beauty (W. P. Cape) Cross-your Luck (W. A. Hoole-Found & (Gay's Synd) Lanelby (P. Zaffere)	2	220 413 730 1.900 1.900 601 85 50 61 62,304 1.700 525 61 61 61 600 260 35 905 585 110 241 316 128	21.31 21.71 132.30 77.44 521.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37 102.27 4.00 11.40 158.97 2.266.45	12.670
Alexasdra (Alexandra Synd.) Do. (sands) Arl:nder (Keir & Rooke) slags, September, 1916 Balcaskie C. E. Strange) pannings Buff.lo E. A. Be_bio) Cam & M stor G.M. Co., Ltd., Campania (G. C. Hooper) Do. (sands) Do. (slimes Chalenge (A. E. Poulton) Cirl (H. F. Wilson) Copenhagen & Victory Webster red Beangsrom) Do. (sands) Dring 1 W (Macdonald & Sale) Fo. (sands) Dring 1 W (Macdonald & Sale) Fo. (sands) Eiffe, Blue Will-ngliby's Con. Co., Ltd. Do. (sands) Eiffen Alannah Min, Co., Ltd. E. Do. (sands) Eiffen Alannah Min, Co., Ltd. E. Do. (sands) Gles Villey L. Ma's & Co.) Po. (sands) Glen Urra Ext. (Glendarra Syn. Glelon Vall v L. Ma's & Co.) Po. (sands) Do. (sands) Do. (sands) Do. (sands)	2 P P P P P P P P P P P P P P P P P P P	250 290 290 470 12.131 427 1337 40 300 320 1.795 1.795 550 4.305 700 4.305 700 611 336 611 336 600 850 270 328 240 320 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 4.000 320 320 320 4.000 320 320 320 320 320 320 320 320 320	260.81 216.19 1.99 \$3.57 3,620.83 ** * 89.89 160.02 9.13 76.71 28.90 83.58 125.96 36.75 477.42 19.92 372.04 1.35×.68 105.33 34.57 172.11 53.68 563.01 88.98 \$4.87 516.17 172.36 102.69 103.88	1,681 897 11 8 316 15,352 373 403 38 318 120 346 522 152 1,979 83 1,542 2,381 368 352 2,265 714 426 2,265 714 426 155 155	Mazoe District ()tal Mazoe District— Day Dawn 'Day Dawn Tribute, Do. (sands)	2 2T	220 413 730 1.900 1.900 601 85 50 65 2.304 1.700 525 554 61 61 600	21.31 21.71 132.30 77.44 \$21.05 535.22 10.25 2.28 65.88 23.46 16.78 52.79 65.05 56.02 51.37 102.27 4.00 11.40 158.97 2.266.45	12.670

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The second secon							
	No. of	Tons	Yield.	Value	ASBEST	08	
Joker (R. L. Mann) sands	stamps.	treated.	29.13	120	BULYWAYO DISTRICT-	Tons	Value
Kenilworth (Kenilworth Synd.)	5	360	19.04	79	Birthday (Willoughby's Con Co.		
Mont d'Or	5	220 120	73.56 22.00	305 91	Lt(L)	92.70	£1 1-3 1 0
Pens Mozzell (Planet = Tribute) (10 Do. (slimes)	01 21')	120	68.00	282	Birthday (N. Moore , adjustment Mar., 1916, to Jan., 1917	_	9,180 1 0
	10 2P	888	168.08	697	Birthday B. W. R. Fromburg Apr	11.25	225 0 0 0
Do. (slimes)	_	888 880	$180.01 \\ 92.00$	718 350	Do. do. May Birthday D. Mrs. U. R. Longhurst)	17.00	340 0 0 200 0 0
Do. (re-treated) Radnor 1 (Radnor Mines, Ltd.)	- 5	1,375	402.47	1.668	Do, do, adjustment		
Shamva Mines, Ltd 56	Te 76	51,484	2,313.50	9,809	Feb., Mar. & April, 1917 Goosha A (J. Longhurst)	9,00	76 0 0 90 0 0
Do. (sands)		29,691 21,318	6,526,65	27,921	Nil Desperandum (E, H, Machell	31.12	C22 10 0
Do. (slimes) Do. (adjustments)	=		_	1,676	Shabanie A (Charterland G.E. and	000.00	3,660 7 4
Do. (slags)			63.30	253	F. Co.)	228.77 27.30	614 5 0
Do. (sands)	2	94 156	21.72 5.69	90 24			
Trio (Trio Synd.)	5	238	158.77	658	VICTORIA DISTRICT-		
			11.400.40	=0.000	Balmain (P. T. Hoad)	28.00	420 0 0
Salisbury District total			11,460.49	50,262	Gath's (Victoria (R) Ashestos, Ltd.) King Ashestos (R.), Ltd	195.23 280.00	3.123 14 4 4.490 0 0
					Regina (P. A. Nightingale)	36 25	580 0 0
UMTALI DISTRICT-		•			Rosev Cross (Mrs. J. C. C. Goddard) Rubber (II. Rosenthal)	1.00	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Bessie (J. Buchanan)	5	1,100	81.38	337	Rubber (II. Rosenthar)		
Do. (sands)	0 Mai	1,110 127	182.68 25.61	757 106		978.95	£25,620 18 8
Do. (sands)		60					
Do. (slimes)	_	67	19.86	82			
Golden Gate (Meikle & Davis)	_	2,300	131.97	517	SUMMARY OF P	RODUCTION.	
Howat's Luck (A. Howat)	(5)	82	28.06	116			Value.
Kent Mines, Ltd	10	1.485	284.41	1,179	Gold, ounces	70,970,92	£299.270
Do. (sands) Liverpool (R. G. Snodgrass)	5	$\frac{1.485}{590}$	75.57 10† 15	313 +32	Silver, onnces		3,216
Do. (sands)	_	230	54.79	227	Coal (Wankie Colliery), tons Copper (blister), tons		10.921
Lucknow (Toronto Synd.) W'fal	l Mill	466	57.71	239	Chrome iron, tons		189
Do. (sands) Do. (slimes)		$\frac{355}{211}$	150.63	624	Asbestos (fibre), tons		25,621
Odzi (J. F. Kapnek)	5	740	72.95	302	Wolframite tons		360
Rezende Mines, Ltd	40	5.200	977.80 393.30	4.149 1,669	Ironstone, tons Diamonds, carats		188
Do. (sands) Do. (slimes)	_	$\frac{3,524}{1,023}$	90.35	384			0101.015
Do. (concentrates)	_	180	422.30	1.792			£401,015
Redwing (R. P. Synd.)	5	590 200	86.23 15.32	357 64			
Do. (sands) Suipe 1 W. (Snipe Synd.)	5	200	16.67	69	COMPARIS	SONS.	
Umtali B (Meikie & Davis) W fal	ll Mill	250	24.22	100	GOLD OUTPUT-		
Umtali District total			3.295.79	13,815	11		£299,270 296,977
1					Increase		£2,293
VICTORIA DISTRICT-	_	100	0.4.73	141			
Cabragh (W. R. R. Martin) Cambrian (J. & D. Laing)	5 2	$\frac{100}{290}$	34.72 167.74	144 695	No. 1016		£323.783
Dickens (Dickens Syn.) Apr. sands	_	100	50,40	333	May, 1916		299,270
Empress (S.A. Pros. & Con. Sn.)	8	1.225	136.05	56 t	·		
Do. (sands) Do. (slimes)		$\frac{775}{450}$	76.06	315	Decrease .		£24,513
Do. (slimes) Sunbeam (S. A. Taylor) Apr.		490	10.00	919			
sands	_	600	32.71	136			
Texas (Victoria Mines, Ltd.), in liquidation	5	363	100.80	418			
·		3110			Tell advertisers you saw it i	n the South .	African Mining
Victoria District total			628.48	2.605	Journal		-

in Mining Journal.

(P) Grinding Pan; (BM) Ball Mill; (T) Tube Mill; (II) Huntington Mill; (GR) Gates Rolls; (B) Ball Mill: (Pn) Pneumatic Stamp; (N) Nissen Stamp; (C) Chilian Mill; (RP) Roasting Plant.

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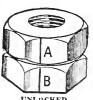
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VISLOK is the Successor of hundreds of Patented Devices that claimed on their Birth to be Reliable Safety Lock Nuts. By the fact that they did not live Twelve Months is proof that they failed when their claims were tested under practical working conditions. Vislok has had to suffer for these failures. Vislok has had to fight against prejudices, want of confidence and distrust created by these many previous failures. Competitor' failures have created in the minds of Engineers that there is no such Device possible as a Reliable and Safety Lock Nut, and that therefore it is impossible to solve the Problem.

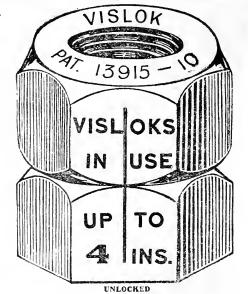
VISLOK has solved the problem, and has gone one better, by doing it, through and by a Self-Contained Single Unit; whereas Competitors' failures have generally based their unsuccessful attempts on using "extras" or "separate pieces"—always a serious source of danger and weakness. Vislok as a Self-Contained Single Unit, based on accepted and proved Mechanical principles, has wiped the floor of all Competitors and thereby established a claim of Uniqueness in the Annals of the Mechanical World. Vislok has been selling continuously for years, and its Sales are bigger to-day than ever.

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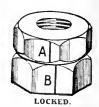
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MINING MATERIAL AND ENGINEERING WEEK IN THE THE TRADES.

Chamber of Commerce Opinion on the Pooling-Progress of the New Scheme-Reef Travellers and the Buyers' Staffs-Galvanised Flat Iron £110-Electrical and Chemical Goods.

THE "pooling" question is still the outstanding feature amongst importers, merchants, and brokers. The Chamber of Commerce had a private meeting amongst their members to consider the position, and after the subject was discussed in all its phases, the concensus of opinion was that it is absolutely a war measure, therefore had to be accepted in good faith. The speech with assurances given by the President of the Chamber of Mines, as a result of instructions through the Union Government from the British Minister of Munitions, was critically examined, but it is reported it was accepted in entire good faith. Since this meeting a very much calmer feeling prevails throughout all commercial circles, assisted very materially by the Russian successes reported during the week.

THE PROGRESS OF THE NEW SCHEME.

The central buying office has been installed, but the plan of operations is in its initial stages, as it will take some time to collect the stock returns for the various mines. It is said that the most essential stores will be taken in hand first, the returns from such being thoroughly dissected and abstracted before a real attempt is made to bring the scheme into operation. After that is done the lesser requirements of the mines will follow on as a matter of course. During the intervals, the separate mines will give their orders on the Commercial Exchange much as usual. Hence a large number of orders appeared on the buyers' list during the present week, but the items were of the most meagre description, as a decent sized order was the exception. It appears that at present only the gold, diamond, and coal mines are in the pool; therefore, the tin, copper, and other base metal mines will have to forage for themselves. This factor in the situation is an encouragement to the merchants who are not overburdened with stocks; therefore, it may enable them to run along and cover their current establishment charges with their outside orders, which is almost all that can be hoped for during the next few months.

In addition to the pooling of the mines, arrangements have been made by two out of the three South African dynamite factories with the Chamber of Mines to work on a commission basis. It is almost certain that the other factory will fall into line.

AN ANSWER TO OBJECTORS.

If anyone wished to cavil at the new arrangements in obtaining goods from oversea, they can be well answered by the notice issued by the New Modderfontein Company. It states, amongst other things, that there appears to be no doubt that the reduction plant will be ready at the end of the year. This, however, cannot be brought into use until the winder plant is ready, but on account of the uncertainty of continuity of the work, coupled with possible delays in shipment and marine loss, the directors cannot state with any certainty when the new winder plant will be ready.

REEF TRAVELLERS, BUYERS' STAFFS, ETC.

In an interview with a Reef traveller, it was gathered that he was much concerned as to his future, as he is afraid that when the central buying office is in full swing he will have to depend upon the sale of a few local manufactures.

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such as fuse sticks and other small things. He has a vivid remembrance how the establishment of the Commercial Exchange reduced his income by half, and now he is afraid that the present "cut" will do away with another slice of his precarious income. So much is he impressed by this view that he has put in an application for a permanent berth, for although the travellers may not be seriously affected during the present month or so, yet the outlook was anything but promising for the upkeep of a wife and family. As regards the buyers, one is arranging to go into business, but generally the staffs are being absorbed in the central office and in other ways. However, it must be remembered that they were all working short-handed, therefore the disturbing element has been reduced to a minimum.

OIL AND COLOUR BUSINESS

A merchant states that unless the embargo on linseed oil and white lead is removed by the British Government. the position here will be serious during the next few months. He further stated that linseed oil and its by-products were classed under the head of eattle foodstuffs, which may be a hindrance to the embargo being lifted. The same party was complaining that the Priority Committee are turning down applications for goods to be imported, wholesale. However, in fairness to that committee, the result of a easual inspection of the refusals showed that there was much to be said on their side, as an application was made for empty tin packages to be imported from Birmingham. Now, seeing we make all our tins for containing coffee and tobacco in this country, it is safe to assume that by a little ingenuity other tins could also be made here, and so save space on the ships for something more essential. Little incidents like this prove that every importer does not yet thoroughly realise the conditions in Europe.

SHORTAGE OF GALVANISED IRON CAUSING UNEMPLOYMENT.

A ton of flat galvanised iron was delivered on July 1st at a cost of £100, but now the price is from £105 to £110 This high price, with future supplies very problematical to obtain, is adversely affecting the plumbing trade, as one shop alone dispensed with three men last week. However, there is a little work available in connection with the municipal drainage at Jeppestown, where the private houses are being connected up with the waterborne sewerage system. It is said that there is still a little money of the special vote left, and it may be that the La Rochelle drainage will be taken in hand shortly. The cost of the connections at Jeppes is ranging between £30 and £40 each, which is only about £5 in advance of the prewar days. The mines are not giving out any plumbing work unless for jobs which cannot stand over; hitherto there were always some orders going for air pipes and such like things.

CHEMICALS.

So far as can be ascertained, the supply of mercury, except a little for retail purposes, has been entirely absorbed, and it is very questionable if half-a-dozen bottles could be obtained in town at any price. In the majority of cases chemicals have not advanced appreciably in price since Christmas, the rise, as a rule, being chiefly owing to the increased freight and insurance charges. Japan is coming more and more to the front in supplying South Africa with chemicals and glassware, much of which are excellent, and well replace the supplies that formerly came from Central Europe. On the whole, stocks of chemicals are more plentiful than any other branch of mining requirements, and, what is more, supplies are coming forward

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freely, which is in a measure explained by the fact that big values are packed in a small freight space. America is also manufacturing mine chemicals for our particular market; therefore, with the help of Japan, supplies should be more than kept up. It is reported that the Transvaal is supplying Japan with many tons of earbonate of soda, most of which is eventually returned as the manufactured article.

ELECTRICAL GOODS.

The shortage of household filament lamps is getting into the acute stage, as the wholesale houses are said to be out of the 50 candle-power globes, therefore many of the shops either have to use 32 or 100 candle-power. The price has advanced from 6s, to 9s, per dozen for all lamps. There is a demand for small electric meters, as property owners are being compelled to protect themselves against the unfair consumption for radiators, electric kettles, irons, etc. In one instance, a block of rooms in the less fashionable part of the town, under a Kaffir caretaker, used over £20 worth of current last month, as compared with an average of £6. This extra could only be accounted for by the use of radiators and other warming apparatus, as a set-off against the cold weather experienced of late. The Municipal Supply Branch has given notice that owing to there being no suitable cable, due to circumstances arising out of the war, the Town Council is unable to entertain new applications for electric supply in Johannesburg and 26 suburban townships.

SECOND-HAND MATERIAL.

It is harder to get decent second-hand material than to sell it, was the remark of a big dealer. However, there was plenty of rubbish, he continued, because the various yards had been sorted and re-sorted so many times without replenishment. Trade is very quiet indeed, chiefly through lack of material. Prices for good average lines are: Deals 11d., flooring 5d., ceilings 3d., galvanised iron 1s. foot, flat ditto 7s. sheet, wire netting three feet in coils of 50 yards 27s. 6d., ditto six feet 50s. Second-hand doors, 16s. each; large windows, 25s. Electrical black tubing, not suitable for town work, from 2d. to 2½d, per foot. The farmers buy this, as it will convey water providing there is not too much pressure. The demand for the Reef is exceptionally quiet, but the Natal coalfield buyers have purchased quite freely during the week of odds and ends, spares, etc.

VARIOUS TRADE ITEMS.

Late telegrams state that linseed oil is quoted at 9s, per gallon, in barrels, at the coast, as compared with 4s. 3.1 before the war. South African crude oxide of the best colour seems to be going out of our market. Prices throughout our standard list keep much the same, awaiting events. On

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JOHANNESBURG.

Agencies in BULAWAYO, SALISBURY, GATOOMA, DURBAN, LOURENCO MARQUES.

the best of authority, it can be stated that the shipping stringency is likely to be more intense during the next two months, when relief may be expected from the output of new ships. The timber position is much the same, although Oregon pine is not coming forward so freely of late, though it is said that some of the shipping has been diverted to the Atlantic route for foodstuffs. Litharge is being locally manufactured. It may be that an attempt at white lead making will be made here shortly. Bromides and iodides samples from Japan were recently shown by a traveller from there.

REVISED PRICE LIST.

Iron, imported, $\frac{1}{4}$ round, 40s. to 50s.; $\frac{1}{2}$ up to 1 in., 37s. 6d. to 50s.; 2 in. to 6 in., 30s. per 100 lbs. Ditto, square, $\frac{1}{4}$ up to 1 in., 30s. to 45s.; $1\frac{1}{8}$ in. to $2\frac{1}{4}$ in., 25s. to 30s.; $2\frac{1}{2}$ in. to 5 in., 25s. Flats, 3-16 in., 40s.; all from \(\frac{1}{4}\) in. up, 50s. Angles, \(\frac{1}{8}\) in. to 3-16 in., 37s. 6d. to 40s., all sizes; $\frac{1}{4}$ in., 37s. 6d.; 5-16 in. to $\frac{3}{4}$ in., 35s., excepting 5 x 4 x $\frac{5}{8}$ in.; mild steel bar, $5\frac{1}{2}$ d. lb.; drill, $7\frac{1}{2}$ d. lb.; steel plates, 10 ft. by 4 ft. by 1-16 in., 50s.; $\frac{1}{8}$ in. by 3-16 in., 50s.; $\frac{1}{4}$ in. to 5-16 in., 40s. to 50s.; $\frac{3}{8}$ in., up to 40s.; 10 ft. by 5 ft. by 1-16 in., 45s.; $\frac{1}{8}$ in. and 3-16 in., 42s. 6d. to 45s.; $\frac{1}{4}$ in. to 5-16 in., 37s. 6d. to 42s. 6d.; $\frac{3}{8}$ in., up to 35s.; intermediate sizes up to 12 ft. by 6 ft. by 1-16 in., 42s.; in. and 3-16th in., 34s. 6d.; in. and 5-16th in., 33s.; in. and up, 32s., all at per 100lb.; hexagon and cuphead bolts, \(\frac{1}{4}\)in. dia., 1s. 9d. lb.; \(\frac{5}{2}\)in. dia., 1s. 6d. lb.; \(\frac{5}{2}\)in. dia., 1s. 6d. lb.; \(\frac{5}{2}\)in. dia., 11d.; \(\frac{3}{4}\)in. and up long, 11d. lb.; \(\frac{1}{2}\)in., dia. up to \(2\)\frac{1}{2}\)in. long, 62s. 6d. 100 lbs.; 1/2 in. dia. and 23 in. up long, 60s. 100lbs.: 5 in. dia. up to 21 in long, 55s. 100 lbs.; $\frac{3}{2}$ in. dia. $2\frac{3}{4}$ in. and up long, 52s. 6d. 100 lbs.; $\frac{3}{4}$ in. dia. up to $2\frac{1}{4}$ in. long, 52s. 6d. 100 lbs.; $\frac{3}{4}$ in. dia. $2\frac{3}{4}$ in. and up long, 50s. 100 lbs.; $\frac{7}{8}$ in. and 1in. dia., same price as $\frac{3}{4}$ in. diameter; nuts, $\frac{3}{8}$ in., 1s. 3d. lb.; $\frac{1}{2}$ in., 65s.; \$\frac{1}{3}\text{in., to \$1\frac{1}{4}\text{in., 62s. 6d.; \$1\frac{3}{3}\text{in. and \$1\frac{1}{2}\text{in., 70s.; \$1\frac{5}{8}\text{in. to \$1\frac{3}{4}\text{in.,}}\$}\$
\$75s.; \$2\text{in. up, 85s.; washers, all sizes, 45s.; rivets, 3-16\text{in., 1s. 6d. lb.; \$\frac{1}{4}\text{in., 5-16\text{in., 1s. 3d. lb.; 7-16\text{in.,}}\$}\$
\$\frac{3}{4}\text{in., 9\frac{1}{2}\text{d. lb.; \$\frac{1}{2}\text{in., 52s. 6d.; \$\frac{5}{4}\text{in., 50s.; \$\frac{3}{4}\text{in. up, 49s.}}\$}\$
\$100 lbs.; shoes and dies, 32s. 6d. to 35s. per 100 lbs.; rails, £23 per ton; picks, 4lbs., 27s. per doz.; shovels, 32s. 6d. to 55s. per dozen; drill hammers, 51d. to 6d. per lb.; hammer handles (best American), 14 in., 3s. 6d., 24 in., 7s., 30 in., 9s. 6d., 36 in., 13s., per dozen; metal, antifriction, 1s. ner lb.: galvanised iron, 24 gauge, 6 ft. to 10 ft., 1s. 9d., 11 ft. 1s. 9d., 12 ft. 1s. 9d.; 26 gauge, 6 ft. to 8 ft. 1s. 6d., 9 ft. and 10 ft. 1s. 6d.: flat galvanised, 18 to 24 gauge, 105s.; 26 gauge, 95s. 100 lbs.; floor brads, 40s.; ceiling, 42s. 6d.; wire nails, 40s. to 55s. per 100 lbs.; solder, 50 per cent., 2s. per lb.; locks, rim, 60s.; mortice, 70s. per dozen; barbed wire, 45s. per 100 lb. coil.

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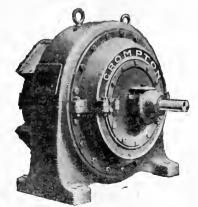
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Engineering Notes and News.

THE STEEL TRADE. MEANS TO WHAT PEACE

By S. A. BENNER*

When the great war broke out in 1914, its first effect on the iron industry of the United States was very depressing. As the mouths went by, however, two facts of prime importance became manifest: First, that modern warfare requires immense quantities of fron and steel, as well as other metals and supplies; and, second, that stated, and supplies; and, second, that stated, and supplies; and, second, that stated and supplies; and, second, that stated, and supplies and second, that stated and supplies; and, second, that stated, and supplies and second, that stated and supplies are supplied and supplies and second that supplies and supplies and

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is located outside the great American district extending from Milwau-kee and St. Louis on the west to New York and Baltimore on the east. This district accordingly is relatively more important than

On January 1, 1918, the United States will possess a capacity of 48,000,000, Canada, 2.100,000, Italy 1,700,000, Russia (area before the war) 6,000,000, British Isles 11,000,000, Spain 600,000, Sweden 900,000, Japan 600,000, and France (area before the war) 5,550,000 gross tons of steel per annum. All the figures of capacity given are quite conservative, and their sum is 101,800,000 gross tons. For the first time in history, during the latter part of the present year, the world's yearly ingot capacity will reach 100,000,000 gross tons. The figures disclose the following interesting facts:

- 1. In three and one-half years the world's yearly capacity in gross tons will increase from 85,000,000 to 102,000,000, or by 17,000,000, or by 20 per cent.
- 2. In three and one-half years the United States' yearly capacity gross tons will increase from 37,000,000 to 48,000,000, or by in gross tons will increase 11,000,000, or by 30 per cent.
- 3. Prior to July 1, 1914, the United States controlled 44 per cent. of the world's capacity; after January 1, 1918, it will control 47 per cent.
- 4. Of the new capacity the United States will have almost two-

Another highly significant fact in the present situation is the enormous direct consumption of steel for war purposes. When this consumption, literally by millions of tons, in the form of shells, ordnance, war ships, motor cars, railway materials, etc., is considered, it may not be out of the way to estimate that 25 to 30 per cent. of ordnance, war ships, motor cars, railway materials, etc., is considered, it may not be out of the way to estimate that 25 to 30 per cent. of the world's total capacity now is being devoted to war purposes. This consumption is the primary cause of the present remarkable conditions. It is requiring a much larger percentage of Europe's steel-making capacity than of ours. Without it the increases in capacity would have been built gradually and not suddenly. When the war is over, the iron trade everywhere must reckon with these increases. To summarise, the great European district, after January 1, 1918, will control a total ingot capacity of over 50,000,000 gross tons per annum. If the Allies are able to push back the present eastern and western war lines, some of this capacity may be temporarily wrecked. In comparison, the United States after January 1, 1918, will have 45,000,000 gross tons per annum of ingot capacity well located for overseas international commerce, as not over 3,000,000 of the country's 48,000,000 tons capacity are disadvantageously located for this trade. Prior to the war, the great American and European districts were able to deliver iron and steel products to their respective seaboards at about the same cost per ton. The American producer overcame his higher labour rates by a more elaborate mechanical plunt equipment, which increased the output per man, and his longer railroad hauls by much larger freight car units, thus reducing the per ton mile freight costs. After the war our capacity for ship building will be three or four times what it was before the war. The application of American methods to ship building, especially the standardisation of the boats, and the speed of the manufacture, under our new conditions of large outputs, will undoubtedly enable us to produce boats at costs comparing fairly well with those elsewhere. As a whole, the outlook for

* Extracts from a Paper issued by the American Steel Export Co.

our mericant in time is better than it has been since before the Civil War. The pointifical conditions now confronting us, both political and hidu trial, caused by the war, are bringing all sections of the country to a correct realisation of the importance of a great merchant marine, operating under the American flag, and the outlook is hopeful for an amchoration of our present harsh marine laws. Off is ting our lack of a great merchait murine, a factor considerably in our favour will be the increased cost of all manufacture in Europe. This will be due to the much higher cost of all manufacture in Europe. This will be due to the much higher that so dimension government bouse caused by the war, the much higher it is of interest that will be caused by the scarcity of money, and the much higher level of labour rates that will undoubtedly prevail. On the face of it, everything in Europe after the war will cost much more than before the war. Great Britain now is collecting a primary income tax of 25 per cent, of the net profits of all business. If this high rate of taxation continues after the war, as is very likely, a British steal plint, for example, that nexted on an average before the war a profit of 10 dollars per gross tons on its ingot production, which would be a conservative estimate, must pay an income tax of 250 dollars per gross ton of ingots. Looking at the situation broadly, the great European district will probably find itsing to cot increased by 3 dollars or more per gros ton. This increased cost will tend to make the great European district not so formidable a competitor in the non-producing markets as formerly. Due to our unique position, the United States is the only country that has been able to resume normal repair and extension construction. By the end of 1917 we will have had over two years of such work. All other countries, including the non-producing markets, are behind by several years with their repair and extension programmes. To make up for lost time, we may expect an era of constructive our mendant in time is better than it has been since before the by several years with their repair and extension programmes. To make up for lost time, we may expect an era of constructive activity after the declaration of peace, not only in Europe, but also in the non-producting markets. Iron and steel will be required, furthermore,

to replenish stocks thro ghost the world, which to-day are practically Boa-existent. When prace comes, bringing with it a cossation of the present evernous demand for steel for war purposes, prices will recede toward the normal and we may then expect the following:

- 1. Some demand from Europe its If for quick reconstruction pures. This demand will not be proportionately great, nor for long.
 - 2. Further constructive work in the United States,
 - 3. Replen'shment of stacks everywhere,
- 4. Abnormal constructive activity in Europe, and the non-producing markets, to make up f r last time.

Obviously, one of the important problems now before the iron and steel trade of the United States is to perfect instrumentalities for getsteel trade of the United States is to perfect instrumentalities for getting and holding a very large share of the overseas one-producing markets. We began to export stell overseas in the late nincties. In general our policy has been aggressive only at times. Usually we simply have met competition from Europe. In consequence, our share of this busitess was comparatively modest. We shall probably find it necessary to change our tactics altogether, we setting the price that the number of the price that we must meet instead of Europe setting the prices that we must meet. Our own country was able to consume a very large proportion of our out-put but with the 30 per cent increase in capacity that we shall of this business was comparatively modest. We shall probably find it necessary to change our tactics altogether, we setting the price that Europe must meet instead of Europe setting the prices that we must meet. Our own country was able to consume a very large proportion of our output, but with the 30 per cent, increase in capacity that we shall have in 1918 as compared to 1914, the situation seems quite different Our banking interests will help greatly in handling this foreign trade, as they are now providing financial branches in many of the non-producing countries. The ditails of export cannot be handled to advantage in the interior, but only at seahoard. For that reason practically all the successful export trade from the United States is managed in New York City. The many problems of interestional finance and transportation can be solved there better than elsewhere. and transportation can be solved there better than elsewhere,

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- 256. George Pottinger Robarts.-The Bantjes candle carrier.
- 257. John Penhale.—Improvements in alcoholic fuels for internal combustion engines.
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- of treatment for the recovery of gold and antimony from auriferous and antimonial sulphide ores. 254. Walter Dufton-Dufton's improved automatic coupling and divided
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Company Meetings.

ROODEPOORT UNITED.

An ordinary general meeting of shareholders of the Roodepoolt United Main Reef Gold Mining Company, Limited, was held on Juno 28 in the board-room, General Mining Buildings, Sir George Albu presided.

The Chairman said:—Gentlemen,—In addressing you on the occasion of our previous annual meeting, in May, last year, I coucned my remarks on the prospects of your company in a distinctly cheerful vein, and in doing so I detailed my reasons at some length. I must at once admit that my anticipations have not been as yet realised, owing to reasons more or less beyond our coutrol—such, for instance, as the continued advance in for instance, as the continued advance in the cost of every department of mining supplies, and the inadequate supply of native labour which we have experienced without intermission since about the without intermission since about the minddle of 1916. For some years past the mine has shown only a narrow margin of revenue over expenditure, and although undoubtedly the developments in the main section of the property—the Kimberley Main Shaft—during the past year and a half have disclosed appreciably higher main section of the property—the Kimberley Main Shaft—during the past year and a half have disclosed appreciably higher values than previously, only a very small percentage of this better grade ore has up to the present been available for milling (for reasons which I will give later in my speech), and the favourable effect which this percentage would have had in normal-times has been largely nullified by the increased scale of working expenditure consequent on the war. This aspect is to some extent evidenced by a comparison of the results obtained for the past financial year with those for 1915. The profit and loss account before us shows an average recovery for the year 1916 of 19s. 11.1d, per ton milled, or an improvement of about 1s. 10½d, per ton on recovery for the previous year. On the other hand, the working costs for 1916 of 17s. 9.9d, per ton reflect an increase over 1915 of approximately 7½d, per ton. The working profit for the past year as a whole was 2s. 1d, per ton, but during the last half of the year, when the adverse factors of shortage of labour and increased cost of mining supplies were being more severely felt, the working profit averaged only 1s. 7d, per ton. For the five completed months of the current year, during which the grade of the ore milled has improved, the effect of the decreased native labour supply and higher cost of stores is still more pronounced, the working costs have risen by an additional 10d, per ton to an average figure of 18s. 8d—equivalent to an increase of 1s. 9d per ton as compared with pre-war conditions. Not withstanding the difficulties which I have just described, the operations for the past year showed a welcome improvement on those obtained in recent years; the gross profit of £19,921 for 1916 is an increase of £2,808 over that for the previous year, and the net profit (i.e., after providing for interest on loans and miners' phthisis compensation) of £23.787 compares very favourably with the net loss of £2,815 for 1915—and, incidentally, represents the best res

Davelopment Policy.

Turning to the ba'ance sheet, it will be seen that a net amount of £17.005 has been expended during the year on shaft a nking, buildings, and development in excess of redemption. Stores on hand have been increased by £1.933 to a total value of £31.581, in order to provide against possible delays or restrictions in imports from oversea. On the other side of the account, your company's liability under the head of loans had been reduced, at the date of the balance sheet,

to £295,305, as compared with £312,630 at the end of 1915. Now, as regards the development of the Kimber.ey Main section, which, as I indicated last year, constitutes, with its 220 intact claims, the main minim's section of your property, the development work effected during the past financial year continued to discose ore of a very satisfactory character, both as regards values and degree of payability. The figures in this connection for 1916, as given in the manager's report, show that on south reef 88.31 per cent. of the development was payable, giving an average value of 9.15 duts, over an estimated stoping width of 42 inches, and on main reef 36.45 per cent. of the development was payable, with an average value of 6.23 duts, over 52 inches. Those figures refer to the Kimberley Main section as a who c. The discosures for the lower levels of the section, i.e., between the loth and 20th levels, where development work has been largely concentrated, are still more enouraging, as the year's development gave a percentage of payability or main and south reefs together of 90 per cent., with an average width of 44.6 inches. I think it desirable to again emphasise the point I made in my remarks last year, that the area between the 16th and 20th levels is estimated to contain approximately 1,250,000 tons of ore, and to supplement those remarks by stating that at the present time 47 per cent, of the total footage required to develop this ground has already been effected, and that the average value disclosed by that footage is 8.5 dwts. over 46 inches. At this stage let me take the opportunity of dispelling misunderstandings and replying to a certain amount of criticism to which I have been subjected by some shareholders since the last annual meeting. These gentlemen, somewhat naturally, ask why, if the developments in the lower levels continue so satisfactory, they have not already been reflected in increased profits from milling operations. Well, gentlemen, the answer is very simple. During the whole of the year 1916 is only gradually that increased tomages from such sources can be brought into service. Naturally, however, each period of a few months should now show an additional quantity of one contributed from this ground, and if, as there is every reason to expect, the stope values bear out the values disclosed by development, the additional ore of letter grade from these levels should be redected in the grade of the ore milled as a whole. I think it only right to again impress upon think it only right to again impress upon you that this ircrease of rock from the lower levels can only be effected by degrees and that, therefore, its influence degrees and that, therefore, its influence for some time to came on the value of the ore crushed as a whole must be correspondingly gradual. The real value of the satisfactory manner in which the Kimberley main section is opening up is not so much in its bearing upon present operations as in its steadily proving the pavability of the main portion of your company's mining area, and thereby assuring its future prospects. Naturally, however we shall be only too glad to see the practical effect on revenue and profits of an increasing supply to the mill of ore

of better grade, and I certainly hope that this will be manifested to some extent during the present year.

Output Results.

Referring to the output results for the current your, I have already indicated that the improvement in grade shown for that the improvement in grade shown for the past two months has unfortunately been connteracted almost entirely by the higher scale of working costs now obtain-ing, which have ruled at about 1bs. 3d. per ton. Moreover, the native labour position has become steadily worse since the commencement of this year, and at the present time the force available on the mine is only 2,800, as compared with an average complement of 3,400 during 19th. I cannot too often remind you that 1916. I cannot too often remind you that an ampie labour supply is most essential to a low grade, as it is only by putting out the largest possible toninge that the heavy standing charges can be advantageously distributed and a substantial pront carned. As an instance of this, the largest tonnage milled in any one month last year was 37,863 tons for March, when largest tounage milled in any one month last year was 37,803 tons for March, when a profit of over £50,000 was made on a recovery of 20s. 5d. per ton. I may mention that there is a somewhat peculiar aspect about the native labourers on this mime, in that about 40 per cent. of them are time-expired and vountary boys, who stay on indefinitely so long as the work on which they are employed suits them. These boys are quite content to work in the easier sections of the property—No. 3, the old United, and the upper levels of the Kimberley Main—bout at once apply for their discharges if sent to the lower levels of the Kimberley Main—but at once apply for their discharges if sent to the lower levels of the Kimberley Main—but at once apply for their discharges if sent to the lower levels of the Kimberley Main—but at the higher value rock is tound. It follows, therefore, that only recrinted boys still under contract can be placed in the lower levels, and as this class of native always contains a large percentage of comparatively inexperienced workers, the result is that in the higher grade stopes, where good efficiency is required in order to obtain full advantage of the better values, the standard of work is poor, whereas the lower grade and caster stopes, which are more snitable to beginners, are occupied by the most-exp-rienced boys. This is a state of affairs which, of course, can only be remedied when native labour is plentiful.

My attention has been called to a re-

enpied by the most exp. reneed boys. This is a stite of affairs which, of course, can only be remedied when native labour is plentiful.

My attention has been called to a remark made by me at the previous annual meeting of this company, that "I was full of hope that the future of the Roodepoort United would be at least equal to its early days," and I am informed that some shareholders have interpreted this to mean that I looked forward to the present mine yielding a similarly high grade to that of the old United section in former years. In view of the fact that for a matter of about tenvears in its carier history the recovery from the old United renged from 40s, to 50s, per ton, it is difficult for me to understand how my remark can have been so strangely construed, as this would have meant that I regarded the existing mine as one of the richest propositions on the Rand! What I intended to convey, of course, was that I hoped the future profits of the company would equal those of the old mine in its best days—in other words, that they would rise to a level of from £9,000 to £10,000 per month. And at the time I uttered this expression, I certainly thought I was dealing with a possibility of the conjugatively near future. We were then cerning from £5,000 to £6,000 per month from ore of a recovery value of inst over 20s, per ton, and it did not seem unreasonable to anticipate that, with the gradually increasing grade which would follow on the opening up of the

richer ore outlined in the lower levels of the Kumberley Main section, we should subsequently reach the figure of profit. I have indicated. Since then, however, we have experienced two most serious of tacks to increased profits, in the shape of increased working expenditure and a decreased labour force, which have for the time being made my prediction appear unduly optimistic especially as the I bour factor has also had the effect of delaying the opening up of new and better grade stopes in the ground between the lifth and 20th levels. I do not intend to venture again to-day into the fields of prognostication, but I can fairly ask you to consider this question: If we can make a working profit of proceedings of the property and inadequate labour, how much better are the prospects when working under more normal cond-ions and with the added advantage of being able to call on an appreciably larger extent on the higher grade rock walch we continue to disclose in the lower levels of the property?

Men on Act ve Service.

Your company continues to make allow ances to the dependents of those of its white employes who have gone on active service with the sanction of the management. The total enlistments to daty for Oversea and the East African campaign number 91 men, of whom 56 are still away, representing 20 per cent, of our complement. I very much regret to have to announce that, in addition to four men who have been wounded, the following three have lost their lives: Acting Lance-Corpl, William George Hunt, Private James Fraser, and Private Herbert Charles Raud. We tender our sincere sympathy to the relatives of these men, in conclusion. I have much pleasure in expressing on behalf of the board our great applied and on the services while your energetic manager, Mr. F. W. Girdler-Brown, continues to devote to the interests of the company.

Girdler-Brown, continues to devote to the interests of the company.

The report and accounts were adopted. Messrs. H. Newhouse and Arthur French were re-elected to the directorate, and Messrs. Ferryman and Goldby and Mr. A. Eckart-Beckmann were reappointed auditors.

NEW STEYN ESTATE.

Sr George Albu presided over the ordulary general meeting of shareholders in the New Seyn Estate Gold Mines. Ltd., held at the General Mining Buildings, on June 29

held at the General Mining Buildings, of June 29.

The Chairman, in moving the adention of the reports and necrunts, said:—The accounts for the past year reflect very little change from the position at the close of the previous year.

The profit and loss account shows the expenditure for 1916 (neluding leeners, etc., £2911) to have been £4877, and the revenue from interest, rents, and owner's share of claim licerces at £3.775 baving a net loss for the period of £1.011, which has the effect of correspondingly reducing the credit balance of £53.333 appearing in the balance of £53.333 appearing in the balance sheet. The cash at banker's consequently shows a similar diminution and with those exceptions the balance sheet is practically on all fours with that for 1915. During the veryour conputy was offered—and accepted—a part e put in of £50.000 on ground flowred the past of the Covernment ground adjoiling the Brikpin Miles, Limited, but I regret to say that the tender was not successful.

The report and accounts were adopted. Messis. J. Freude that and Arthur French, the retiring directors were respected and Messis. Douglas, Low and Co. were reappointed auditors.

WEST RAND CONSOLIDATED.

An ordinary general meeting of share holders of the West Rand Consolidated Mines, Ltd., was held on June 28 in the board room, General Mining Buildmgs. Sir George Albu, who presided, said: Gertlemen,-Tre accounts for the past year show that the working profit amounted to £85,977, as compared with amounted to £83,977, as compared with £93,570 for the previous year, or a dimination of £7,553. In view of the decrease of 5½d, per ton in the recovery value of the ore milked and the increase of 6d, per ten in working c.sts for the year under review, a greater shortfall of profit would appear to be called for, but the influence of these adverse factors was largely counterbalanced by the fact that, as the result of the installation of the two largely consterbalanced by the fact that, as the result of the installation of the two additional tube mills referred to in my remarks at the last annual meeting, it was possible to crush 66.810 tons of ore during 1916 in excess of the tonuage treated in 1915. With the addition of sundry reverue from interest, discount on delentions measurements and distinct on the contract of th tures purchased, and dividends on invest-ments, the gross profit for the year amounted to £108,029. This was appro-priated to the extent of £22,954 for in-terest on debentures, and after providing for Government taxes at d miners' phthisis or Government taxes at d miners' phthisis compensation, a net profit of £69,517 was carried to the balance sheet. As I explained, however, last year, these net profits are not available for distribution, inasmuch as they are applied from year to year either in increasing the company's fixed and other illiquid assets, or in the reduction of liabilities in respect of outstranding debentures. For instance, durstrading debentures. stunding debentures. For instance, during the past year £46,703 were spent on capital expenditure in the shape of additional shaft sinking, machinery and plant, building, and expers development. The tional shaft sinking, machinery and plant, buildings, and excess development. The stock of stores on hard was augmented by £15.859; and debentures were purchased in the open market to a further amount of £79.570. These three items account for a total expenditure of £162.911, which was provided to the extent of £69.517 by the net profit for 1916, and the balance by a portion of the cash on hand. As will be seen on comparison of the respective balance sheets, the cash on hand (including gold in transit) at the 31st December last had been reduced to £111.276, as against £204.149 at the close of the previous year. In considering these figures, vious year. In considering these figures, however, regard must be had to the nature of the expenditure incurred. The increase of stores was rendered imperative nature of the expenditure incurred. The increase of stores was rendered imperative by reason of the uncertainty and unreliability of regular imports from Oversea. The additions to plart and buildings represent an instalment of the increased treatment capacity of the reduction works which it is subsequently intended to effect: and the purchase of debentures to the nominal value of £79,570 not only covers a portion of the debentures which would otherwise have had to be drawn for redemption in September, 1916, but also the whole of the debentures due for redemption in September, 1917, and September, 1918, as well as £10,160 of the debentures due for redemption in Sentember, 1919. In other words, there will be no necessity either this year or next to appropriate for debenture redemption purposes any portion of the profits carned—although, of course if parcels of the company's debentures should be offered in the market during these periods at material discounts, your directors would naturally consider the advisability of making further purchases. Whilst dealing with this subject I may perhaps explain that, apart from any question of the profit accruing to your company in purchasing its debentures at a discount, there is the matter of the any question of the profit accruing to your company in purchasing its debentures at a discount, there is the matter of the saving of interest which is involved. Even in these times of abnormally high rales of interest on fixed deposits with banks and in Treasury bills, it has not hitherto been possible to obtain a return from these sources

of so high a rate as the 6 per cent, per annum which this company's debenture issue bears, and therefore an appreciable proportion of our surplus funds has been fivested in buying parcels of the debentures as offered. I may add that the total amount of debentures of the company purchased for redemption up to the present time is £135,100, leaving £364,840 outstanding. Reference is made in your directors' report for the past year to the acquisition of a portion of the mining area of the West Itand Central G.M. Co., lying to the west of the northern portion of your company's main block. This purchase, at a merely nominal price, will allow of the isolated block of 20 claims belonging to your company and situate to the west of the West Rand Central ground, being attacked through certain drives already existing in the workings of the latter company, and which again can be easily connected with the western workings of our main block.

Fall in Native Labour Force.

I will now deal with the results of mining operations for the current year, and with the causes which have led to the disappointing returns for the last few months. You will probably have noticed that the published monthly outputs from January onward do not reflect any mate-January onward do not reflect any material increase per tor in working costs over the corresponding figures during 1916, and that the tonange milled—with the exception of April—showed no decided reduction. Obviously, therefore, the seriously diminished profits have been due to the only other possible cause, i.e., fall in grade This is illustrated in the recovery per ton obtained since the commencement of this year, which (as compared with the average recovery of close upon 24s. per ton for 1916) has been as follows:—January, 22s 6.3d.; February, 22s. 11.9d.; March, 21s. 5.8d.; April, 20s. 2.8d.; May, 19s. 4.6d. And now for the reasons. The root of the whole trouble has been the decrease in the native labour supply, a factor of very considerable insupply, a factor of very considerable in-fluence on a mine such as that of your company, which in the first place is com-paratively low-grade, and secondly is one paratively low-grade, and secondly is one suitable in most sections for hammer stopes only. The native labour force fell gradually but surely from January onward, and as the shortage became more and more pronounced, exceptional measures were taken with the object of maintaining the tonnage necessary to obtain sures were taken with the object of maintaining the tonnage necessary to obtain a reasonable margin of revenue over working expenditure. The management was faced with the alternatives of either restricting the available labour almost entirely to hammer stopes (which would have entailed a considerable reduction in tonnage, with the possibility of earning no profit at all), or of keeping up something like normal tonnage by means of placing machines in stopes unsuitable for this method of breaking rock—with the hope that this uneconomical measure would be soon rendered unnecessary by an nope that this uneconomical measure would be soon rendered unnecessary by an improvement in the labour position. Unfortunately, however, the native labour supply became worse instead of better. It was also found that the use of machines in hammer stopes had the effect of breaking so much waste rock as to materially reduce their normal recovery value—in some cases to the extent of rendering them unpayable. Furthermore, the inthem unpayable. Furthermore, the introduction of these extra machine drills created too great a demand on the compressor plant, with the result that the air pressure proved inadequate for the machines at work as a whole. Another feature of the abnormal efforts made to keep the mill supplied with ore under the difficult circumstances was that all the broken rock previously accumulated in the stopes throughout the mine was drawn upon in January, February and March, with the consequence that at the end of the last-named month no stock of broken ore remained. It was at this most

difficult and crucial stage that Mr. Erroll Hay took over the management of the mine, and so bad was the position that it was only by the exercise of the greatest energy and hard work that any profit at all was made possible for April. In May, although the native labour position was still more acute, Mr. Hay was able by re-arrangement of the underground work to show improved results, notwithstanding that he had already commenced to accumulate broken ore underground, for banking shoots in the stopes and in order to reorganise shovelling and tramming operations, and in spite of the fact that at that time there were 366 less natives employed underground than in February. crucial stage difficult and ployed underground than in February.

Expected Improvement.

These achievements are, I think, a tribute to the methods of reorganisation which the new management has effected, and a good augury for the future. There and a good augury for the fature. There is a further matter arising out of the investigations of the last few months which is now in course of being remedied. In some parts of the mine, especially in the instance of the area lying between the 3rd and 6th levels west of the west shaft, it has bitherto hear the guest to the 3rd and 6th levels west of the west shaft, it has hitherto been the custom to place the drives at distances of from 400 up to as much as 1,000 feet apart, on the assumption that the recf would have the same characteristics of payability and regularity as in the case of the ground lying above the third level, which was successfully developed in a similar the received the property becomes apparent. regularity as in the case of the ground lying above the third level, which was successfully developed in a similar manner. It has recently become apparent, however, that the ground between the 3rd and 6th levels is of a more faulted nature than was anticipated, and that therefore it will have to be further developed by means of intermediate drives, etc., before justifying either the tonnages or values previously placed upon the blocks. In this respect, therefore, I must frankly state that certain blocks included in the fully developed ore reserves at the 31st of December last would more properly (in view of the knowledge since obtained) be placed in the eategory of partially developed ore. As I have already stated, however, the position is now being straightened out, and before the close of the current year the additional work required to fully develop the blocks in question will have been effected. Now, gentlemen, I think I have completed the worst part of my interview, and although the position during the last few months has undoubtedly been an anxious and disworst part of my interview, and although the position during the last few months has undoubtedly been an anxious and disappointing, one, I fully believe that we have already turned the corner. You will, however, appreciate the point that it is much easier to get into a difficult position than to get out of it; therefore we may have to ask you to exercise your patience for some time longer before we shall be able to return to normal conditions of output. Assuming that the native tions of output. Assuming that the native supply gradually improves—as it should do, in the ordinary course, during the next few months—and that our relations with our white employes continue un-disturbed, I see no reason whatever why last year's standard of profits should not be regained, and even perhaps exceeded. This object will be assisted by the larger This object will be assisted by the larger winding and compressor plant which is being installed at the Rand shaft, and the erection of which is nearing completion. The existing winding engine has reached the limit of its capacity as regards both length of wind and tonnage hoisted, and the present compressor plants are taxed to their fullest extent. The tonnage now being hoisted from this shaft is well below the quantity which we are entitled to mine on the basis of the ratio which the battery reef reserves bear to the ore reserves as a whole, and the new plant will therefore enable us to take more ore from this source for the mill by providing additional air pressure for the machine drills and also greater hoisting facilities. We have been able to purchase the whole of this plant locally which is a distinctly fortunate circumstance, having regard to the impossibility at the present time of importing requirements of this kind from oversa. I may remird you that the ore reserves on hattery reef are of a higher average value than n ain reef, and that consequently the increased quantity of rock which will be available from the Rand shaft should have a favourable effect on the general grade of the ore milled. The new compressor will be running by about the middle of next month, and the new winder should be ready to start up during August. Under these circumstances I am distinctly hopeful that the subsequent months of the current year will show a very decided improvement in the results from mining operations, especially in view of the real and very material economies in working, and the better methods of organisation, both underground and on the surface, which have been introduced by the new management.

Toll of the War.

Toll of the War.

Before concluding I with to refer to the services which your compine's employes have rendered, and are continuing to render, in connection with the war. Up to the present time 95 of our white employes have enlisted, of whom 61, equivalent to 18 per cent, of the complement, are still away on active struce. Our l'st of casual ties is unfortunately a comparatively heavy one, and I am sure you will join me in wishing a speedy recovery to those who have been wounded, and in expressing sincere sympathy with the relatives of the undermentioned men who have lost their lives:—S'aff-Sergeant Sydney Davey Parsons, Private Jehn Harwood, Private James McInnes, Private William Henry Moyle, Pivate Enrist P. Ikinghorne, Private William Henry Moyle, Pivate Enrist P. Ikinghorne, Private Wilson.

Misor.
The report and accounts were adopted.
Mess s. Arthur French and J. Friedlander were re-elected to the directorate.
Mr. E. Dinckweits and Messas Ferryman and Goldby were reappointed auditors.

SACKE ESTATES.

The ordinary general meeting of share-holders in the Sacke Estates and Mining Company, Ltd., was held on June 29 in the board room of the General Mining Buildings, Sir George Albu ore sidding

The Chairman, in moving the adoption of the report and accounts, said:—As you will see from the accounts before you, the revenue of your company for the past year amounted to £3,092, and the administration expenditure to £1,115, leaving istration expenditure to £1.115, leaving a gross profit of £1.977. In order to maintain the investments at a book value at or under the Stock Exchange closing prices at the 31st December last, the major the stock of the price of the stock closing prices at the 31st December last, it was necessary to write down certain stocks to a small extent, and the depreciation in this respect debited to profit and loss account was £665, thus reducing the net profit to £1.312. Consequently, the liquid assets (cash and investments) after allowing for liabilities amounted to £65.440 at the end of 1916, as compared with £65.128 at the close of the previous year. Otherwise there is as compared with £65,128 at the close of the previous year. Otherwise there is no change to record in the position. Dur-ing the year your company accepted the offer of a participation, on ground floor terms, of £30,000 in the tender sub-mitted by the General Mining and Fin-ance Corporation, Ltd., for the lease of the Government ground adjoining the Brakpan Mines, Ltd.—I regret to say, however, that the tender was not suc-cessful.

The report and accounts were adopted The retiring directors (Mr. Arthur French and Mr. H. W. Dafton) and auditors (Mr. A. Eckart Beckmann, and Messrs. Douglas, Low and Co.), were re-

CINDERELLA CONSOLIDATED

The ordinary general meeting of the shareholders of the Cinderella Consolidated Gold Mines, Ltd., was held on June 29 in the board-room. General Mining Buildings. Sir George Why presided Albu presided.

The Chairman said:—The debit balance of £8,473 on profit and loss account for the past financial year really represents, with the exception of the penditure in connection with engineer's report on property" of £1,239, the cost of maintaining your company's property. after crediting sundry revenue received in respect of interest on deposits, etc. we add the debits to appropriation account in respect of miners' phthisis compensation, English meome tax, etc., amounting to £460, the net cost to your company for the year was £8.933 With regard to the financial position, it will be seen from the balance sheet that a payment was made during the year of £14,496 to the East Rand Proprietary Mines, Ltd., being the purchase price of the 16.5 ciaims previously agreed to be sold to us and referred to in annual reports of your directors for some years past. On the other hand, some non-essential machinery and plant was disposed of for £1,557 and £2,259 was received from the East Rand Proprietary Mines for certain development work on the northern boundary of your mine effected by your company several years ago, for which the East Rand Proprietary Mines had agreed to pay on the ratification of the purchase by us of the 16.5 claims already referred to. Stores to the sale value of £6,054 were also disposed of during the year, and after taking into account the compiratively small increases in sundry debtors and payments in advance, the net result is that the cash balance was reduced, as compared with the amount in payment was made during the year of reduced, as compared with the amount in hand at the close of 1915, by about 1215,000—which, of course, includes the cost of £8,933 for maintenance of your cost of £8,933 for maintenance of your property mentioned in my opening remarks. I may add that owing to our having been able to dispose, since the date of the balance sheet, of further lost of stores to the value of about £2,000, and of other items of non-essential machinery, we have been able to meet the expenses of maintenance for the current expenses of maintenance for the current six months without further depleting the cash in hand, which therefore at present six months without further depleting the cash in hand, which therefore at present stands at approximately the same figure as at the 31st December last, i.e., £12,000. Since the date of the report of your directors for the past year, we have entered into an arrangement with the Board of the East Rand Proprietary Mines, £1d., in terms o which we have agreed to grant that company cert at facilities for enabling it to develop and work a bock of its ground which lies between the deep and central sections of your company's mining area. This arrangement provides that we will allow the E.R.P.M. the use of the (inderella main shaft for the parpose of hosting men and materia's, and a so to use, for the purpose of entry into and working its block, the six levels of your company which have been driven eastward cose up to the boundary of the E.R.P.M. ground. We have also agreed to allow the E.R.P.M. to see at an agreed monthly rental, the boiler and compressor plant and the 3-ton electrical hoist installed at the Cinderela main shaft. As consideration for these concessions, the E.R.P.M. the stronger of the compressor plant and the 3-ton electrical hoist installed at the Cinderel a main shaft. As consideration for these concessions, the E.R.P.M. the stronger at the development of our third level east twhich is already inside the E.R.P.M. the ground to the dip boundary between its block of claims and our central section, and after wards, if we so desire, to continue the drive into our central section, and after wards, if we so desire, to continue the drive into our central section at our expense, and to give us any facilities we may require to enable us subsequently to sink winzes to that portion of our

nit'i level which has on the dip of the FRPM dick. As further consider ation, the ERPM has agreed to grant us an option for several years to grant us an option for several years to parch so it a very reasonable price the converse will be between the continuity of our third level (through the LR PM, block) and the southern boundary of that block. This area cannot originately be ascertained until the third level his been driven up to the eastern houndary of our central section, but it will probably be from 13 to 15 claims. The option to your company is of very The option to your company is of very considerable potential value, inasmuch as, if exercised, it will enable us, when we recommence active operations on our proper'y, to open up a very large tomage of ore (probably something like half a million tons) with a comparatively small expenditure of time and development work between the northern boundary of work between the northern boundary of the claims and our existing 5th level drive, which, as you may remember, is also the connection drive towards the central section, and had been driven a total length of 4,195 feet in the latter direction at the time the mine was closed down in December, 1913. I may also remind you that this drive exposed very good values, the average for the 2,000 feet driven and sampled on reef being 10 dwts, over 42 inches. I should, perhaps, stree that the arrangement with the E.R.P.M. contains provisions which enable us, if and when we so desire, to terminate at short notice any or all of the concessions granted by us, so that we should not be hampered in any way by the agreement in the event of way by the agreement in the event of restarting active operations on our property, but this will not affect our option on the claims to which I have previously referred, which will definitely continue for the period fixed.

The report and accounts were adopted. Mr Leopold Albu and Mr. Arthur French, the retiring directors, were re-elected, and Messrs. Douglas, Luw and Co, were reappointed auditors.

AURORA WEST UNITED.

The ordinary general meeting of the shareholders of the Aurora West United Gold Mining Company Limited, was held in the bardroom General Mining Building, on June 29, Sir George Albu presid-

The Chairman said :- When addressing you at the previous annual meeting of the company held a little over a year ago, I stated there was every indication that the working prefits for 1915 would be maintained at about £4,000 per month, or £50,000 for the year. The accounts before you show that my estimate was fully justified by subsequent results, as the working profit for the period mentioned amounted to £52.049. After providing for interest on the advances from the General Mining and Finance Corporation, Limited, profits tax, war levy, and contributions to the miners' phthisis compensation fund, a net miners' phthisis compensation furd, a net profit of £42.499 remained. To this amount may be added the increase during the year to the credit of mine development reserve of £4.125, representing the excess of the charges to working costs during the period in respect of development redemption over the actual cost of development, thus giving a total cash profit of £45.624, which was uils d as follows:—C pital expenditure on shift sinking and additions to plant and machinery (as described in the manager's report for the year, absorbed £7.503; stores on hand were increased by £12.902, in creer to bring them up to a quittary representing six months' supply; and the balance of the net carnings was applied to the reduction of the company's liabilities. In this latter connection you ill indice from the balance sheet that the ind bredness of your company to the General Mining and Finance Corporation

was reduced from £80,984, as at the end of 1915, to £44,777 at becominer 51 hast. It will thus be seen that, as in preceding years, the prefus carsed by the mine have been applied to two purposes, i.e., the necesses of mine equipment and the partial languages of the second policy. interine of mine equipment and the pirtual liquidation of the company's highlities, and were consequently it available for distribution. In these circumstances the same procedure highest followed in the accounter of the partyear as on previous occasions, by writing off the net piolit against the book value of permanett works, machinery and plant, and ballings. As I pointed out in my speech at the last annual meeting there is no object in building up a large creat to profit and loss account out of profit which have been already util sed in additions to plant and in repaying advances previously made to the company, and which cannot, therefore, be again utilised.

The Year's Mining Operations.

With regard to the actual mining operations for the year, a comparison with those for the previous 12 months shows that there was an addition of approximately 6.400 tons of ore milled, with a shift increase in the received when the program of the received when the program of the slight increase in the recovery value, and an apparent decrease in working costs of about 6d. per ton. It must be borne in mind, however, that as from February, in mind, however, that as from February, 1916, the charge to working expenditure in respect of development redemption was reduced by an amount equivalent to about 10d, per ton milled, so that the average working costs for comparative purposes really reflect an increase of 4d. per ton milled. On the other hand, the enhanced prices during the year for mining supplies, and the additional expenditure for allowances to employes on active service, war bonus, kave pay, etc. active service, war bonus, kave pay, etc., are estimated by the management to nave are estimated by the management to nave amounted to an aggregate of over 7d. per ton as compared with the previous year, so that on balance the normal working costs may be said to show a diminution of about 3d. per ton. Although this figure seems insignificant, it is really a satisfactory achievement having regard to the existing circumstances, which are undoubted y difficult, especially in view of the large number of men absent from the Rand on active service and other war work. In the instance of your company, 2/ men are at present on active service, representing 20 per cent. of the white employes. 1 am thankful to say that up to now I have no death to record amongst those of our services provided the proper way to be been sized we but our deep no death to record amongst those of our men who have joined up, but our deep sympathy goes out to Pte. G. Stobie, who is suffering from what I fear will prove to be permanent blindness, but is bearing his artifactor with the greatest. to be permanent blindness, but is bearing his affiction with the greatest courage. Dealing with the subject of mine development, the total tootage recorded for the past year is 6,590 feet, or roughly 1,000 feet in excess of that accomplished for the nections area. for the previous -year. This, however, includes 699 feet of crosscuts, as compared with a corresponding figure of 399 feet for 1915; extra dead-work of this nature, although necessary, does not directly open up additional bodies of ore, and this tactor, combined with abnormal faulting met with in the lower levels of the property, largely explains the decrease of some 66,000 tons in the fully and partially developed ore reserves as compared with the end of 1915. Per contra. the existing reserves there exists contra, the existing reserves show a slight increase of .12 of a dwt. in value.

Prospects of Dividend.

At the last annual meeting of your company, I ventured to predict that it would enter the list of dividend-payers in the course of this year, provided that normal conditions be maintained in the interval. There are still six months to run before the period covered by my esti-mate expires, and it may be that I shall be proved to have been over-sanguine. The financial position at the end of last month

was that the net habilities of the company 1e., after allowing for cash in hand and good in trained) amounted to about £38,000, as against which we had stores in hand to the value of over £21,000. At the present rate of monthly profits it would therefore take about ten months from the beginning of this month to hundare the whole of the debts—in other words, until April next. It is possible, however, that if there be no interraption in continuous mining operations, and again that the labour position does not change for the worse, arrangements may be made with the General Mining and Finance Corporation which will allow of a dividend being declared at the end of this year, and of the remainder of the debt due to that corporation (which I trust will be the history of the side of his did to the conjugation of the side of him the labour position of him the nolicy which we have maintained of himidating the whole of the company's liabilities out of profits carried, whist admittedly delaying the declaration of dividends, has enabled us to limit the issued capital to the exceedingly small figure of £100,332; that after the now remaining debt has been pa'd off the next profits theneforward made will be wholly available for distribution to shareholders, and should represent a very satisfactory return on the capital of the company. In conclusion, I have much pleasure in expressing the board's appreciation of the valuable services rendered by your manager, Mr. J. K. Digly.

Thes report and accounts were adopted.

Thes report and accounts were adopted. Mr. Leopold Albu and Mr. Arthur French were reclerted directors, and Mr. Harry Ha ns and Messrs. Fraser and Mac-kenzie were reappointed auditors.

RAND COLLIERIES.

The ordinary general meeting of share-holders of the Rand Collieries Limited, was held on June 29, in the board-roon, General M ning Buildings, Sir George Albu, who presided, said:—Gentlemen, I have again to express my regret that there is little for me to add to the information con ained in the report of your directors for the past year. It stems obvious that, in the first place, there can be no possibility of raising funds for your company until after the terminition of the war, and, in the I ght of the expreiere gained by other companies whose properties are situate on the far East Rand, it would appear that in order to attract fresh working capital it is nicessary to hold a larger mining area than that at present possessed by your company, in order to provide an ample margin of insurance against the large perceitage of unpayable ground, which is a general characteristic of that district. The draft Mining Leases Bl. which was introduced in the last session of the Union Parl ament, and with drawn owing to pressure of other business, has suffered the same late in the session now rapidly drawing to a close. This Bill provided for a Mining Leases Board which would sit every three months in order to crucier applications for the lease of Government ground, and therefore costituted a means whereby a company such as the Rand Collicies could at any time make proposals for the incorporation of additional ground, with its existing mining area, for the purpose of rendering the combined area a workingle proposit on in the sense that it would centain the necessary mirgin for providing for unpayable start would enable us to obtain the necessary fun's to justify us in applying for the already of the would enable us to obtain the necessary fun's to justify us in applying for the lease of the Government ground adjoining your poper'y to be worked in conjunction with the letter.

The report and accounts were adopted. Messrs, Loopold Albu and Arthur French were re-elected to the directorate.

Messrs, Fraser and Mackenzie were re-appointed auditors.

Meyer & Charlton Gold Mining Company, Limited.

(Incorporated in the Transvaal.)

Directorate: Sir George Albu, Bart. (Chairman and Managing Director); Leopold Albu, alternate H. W. Dalton; Arthur French. Manager: H. G. Nitch. Secretary and Head Office: J. V. Blinkhoru, General Mining Buildings (P.O. Box 1173), Johannesburg. London Committee: P. G. Hamilton Carvill, J.

Freudenthal, F. W. Chambers. London Secretary and Office: T. Frederick Thorne, 63/4 Winchester House, Old Broad Street, E.C.2. Paris Agents and Office: General Mining and Finance Corporation, Ltd., 29 Rue Taitbout, Paris.

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£121.937 4 10

REPORT OF THE DIRECTORS

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Thursday, the 28th day of June, 1917, at 11 o'clock in the forenoon, in the Board Room, General Mining Buildings, Johannesburg.

in	
To the Shareholders,	,
MEYER & CHARLTON G.M. CO., LTD.	
Gentlemen,— Your Directors beg to submit their Report on the at the Company for the year ended 31st December, 1916, with the Balance Sheet, Profit and Loss and Appropriat counts at that date. These are accompanied by the Reports Auditors and the Manager.	together ion Ac-
CAPITAL. The Capital remains unaltered at £200,000, in shares cach, all issued and fully paid up.	s of £1
PROPERTY.	
The property of the Company consists of the following	. : -
Ground held under freehold as well as mynpacht and claim licence covers an area equivalent to \$0.7784 claims, of which 4.4276 claims are north of the outcrop, and the reef claims are	76.3508
Claims	90.0637
The surface rights of the following Bewaarplatsen and rights:	Water-
(a) Bewaarplaatsen attached to Deep Level Block (b) Water-rights, two small blocks also annexed to the Deep Level Block, together	Claims. 0.8525
Deep Level Block, together (c) Water-right (known as the Wolsingham Water-right)	1.7980
on the Natal Spruit	7.5672
	10.2177
The following Stands, viz. :-	
 3 Leasehold Stands, Nos. 678, 679 and 682, Jeppestown. 10 Leasehold Stands, Nos. 84/88, 91 and 93/96, on the M. Doornfontein. In addition, the Company holds under mynpacht and 	
title an area of 9 morgen, 374 square roods (equal to	13.8576

claims) lately leased to the Spes Bona G.M. Co., Ltd., but which has now reverted to the Company. Upon this ground the Spes Bona Company had erected a dwelling house for the use of their manager, covering an area of 92.91 square roods, the freshold of which has been sold to that Company.

PROFIT AND FINANCIAL.

rights of Bewaarplaatsen, etc. ...

29,112 5 9

55,902 7 9

	Special War Levy Miners' Phthisis Compensation Income Tax Depreciation written off £17,500 Transvaal 3 per cent. (1958) Balance of unappropriated profit carried forward to new year	20,026 930 2,232 5,250	6 10 0	7
-	<u>-</u>	E406,573		_
	The financial position is as follows?— Liquid Assets:— Cash on deposit, with accrued interest, and on current account, and gold in transit			
	Less— Liabilities:— Sundry Shareholders (Dividend No. 54 of 55 per cent.) £110.000 0 0 Government of the Union of South Africa (estimated Profits Tax and proportion of nett produce in connection with undermining rights of Bewaarplatsen, etc., for 1916 and Special War Levy) 69,297 8 9 Sundry Creditors 27,738 5 7 Unpaid and Unclaimed Dividends 8,085 12 2	2337,058	11	4
		215,121	6	8

Less Amount over-estimated for 1915

DIVIDENDS.

Excess of Liquid Assets over Liabilities

Two dividenly were declared during the year, namely, No. 53 (of 45 per cent), paid for the half-year ended 30th June, and No. 54 (of 55 per cent) for the second half-year, payable to share-holders registered at the 31.4 December. These dividends amount to a total distribution of \$200,000 for the year.

The total dividends and bonuses paid by the Company, aggregating £1.895,308 198, 0d., amount to 1.475 per cent, on the capital issued from time to time.

GOLD PRODUCTION.

The full mill of 75 stamps ran 343.02 days, and, with accessory tube mills, crushed 176.879 tons of ore, yielding gold to the value of £438.852 12s. 6d., could to £2 9s. 7.502d. per ton. The working expenditure amounted to £169.193 8s. 8d. or 19s. 1.572d. per ton, leaving a profit on mining of £269.699 3s. 10d. (30s. 5.670d. per ton). The recovery shows an increase of 4s. 4.947d. per ton, and the working costs an increase of 11.529d. per ton as compared with the results for the previous year.

ORE RESERVES.

The fully developed payable ore reserves at the 31st December last are estimated by your Manager at 512,787 mining tons, of an average value of 14.5 dwts, over an average stoping width of 51.3 inches; in addition there were 161,410 mining tons of partially developed ore of an average value of 17.1 dwts, over 47 inches. These reserves have been paid for out of past profits.

£1,000,411 5 0

Meyer & Charlton Gold Mining Company, Limited-continued.

1916 (less over-estimated 1915) 29,112 0 9 themselves for re-appointment. You will be asked to vote		Leopold Albu and Arthur French, who retire in accordance we the Articles of Association, but are eligible—and offer themselves for re-election. AUDITORS. It is with extreme regret that your Directors have to amount the death of Mr. J. P. O'Reilly, one of your Auditors, in Octol last. Mr. F. W. Diamond was appointed by the Board to fill twacancy thus created. In terms of the Articles of Association, your Auditors, Mess C. L. Andersson & Co. and Mr. F. W. Diamond, retire, and of themselves for re-appointment. You will be asked to vote the
Income Tax 3,298 12 6 ensuing year.	Income Tax 3,298 12 6 Mmors' Phthisis Compensation 6,698 4 8 Bearer Warrants written off 55 17 6 Depreciation on Stores 936 0 3	GEORGE ALBU, Chairma

Dr.	BALANCE	SHEET	AT	31st DECEMBER, 1916.	Cr.	
., Reverde Appropriat Expenditure— As at Dec. 31, 1915	£1 each, fully lance Sheet at 915	£200,000	0 0	1915. 1916. 3y Property £422,851 14 6	9,803 13 5,835 7	6 6 1 8 3
Less Transfer Appropriation Account a 31st Dec., 1916	t 129 5 9 288,058	7 0 463,058 663,058 27,738	7 0	. Mine Development (512,787 tons fally developed) ,, Furniture	Nil 210 10 83 16 5,882 8	2
"Sundry Creditors "Unpild and Unclai Sundry Shateh Ide. Sundry Shateh Ide. Die d nd No. 54 of £200,000 at 31st Governme t of the Africa— Estimated Profits Tax Estima ed Perce	med Dividends 55 per cent. on December, 1916 Union of South for 1916 and		12 2	230 Snares of £1 each, 12s. paid up and 25s. per Share deposit. Rand Mutual Assurance Co., Ltd.—60 Shares of £10 each, £6 paid up. Witwaters and Co-operative Smelting Works, Ltd.—445 Shares of £1 each, £8. paid up. Native Recruit ng Oo. poration, Ltd.—12 Shares of £1 each, fully paid; and Deposit of £6s. 6d.		
Produce for 1916 Undermining Rig plastsen, etc Estimated War Levy of 1915 and 34 of	6 in respect of this of Bewaar	1 0	8 9	" Sundry Debtors	1.341 11 1.112 9	0 4
Pront unappropriate	d at 31st Dec- 		11 6	Gold in Transit— Balance due in respect of 982 per cent, advance of the estimated	2,824 1	5
CONTINGENT LIAB Witwatersrand Native ciation, Ltd -8s. called on 230 Shar Rand Muthal Assura	Labour Assoper Share un- es £92 0 ince Company,	0		value of gold produced in December, 1916 £5,401 0 0 Estimated balance due on realisation in respect of gold unrealised since outbreak of war 580 0 0	5,981 0	0
Lt l£1 per Share Shares Witw tersrand Co-oper W rks, Ltd12s, c lled on 45 Shar Native Recouling Cor Deposit Account- native uncalled on 1.143 natives	mative Smelting per Share un- es 267 0 poration, Ltd., -13s. 6d. per complement of	0		, Cash on Hand— At Bankers— On Fived Deposit, plus accrued Interest£229,098 7 4 £33.000 British Treasury Bills (less discount)	,,,,,,,,	·
and harres	£1,370 10				9.917 1	2

£1,000,411 5

Meyer & Charlton Gold Mining Company, Limited—continued.

Dr. Profit and Loss Account for the Year ended 31st December, 1916. Cr. (176,879 Tons Milled).

ost	t per	ton.	Value per ton. Fine Gold
	d.	F- Mi-i	s. d. Ozs.
		To Mining £82,967 16 9	
0	5.045	,, Sorting, Crushing and Transport 3,718 6 2	24 0.233 Fron Milling 52,471.58 £219,059 11 8
1 1	1.687	,, Milling 17,456 17 7	24 10.260 ,, Cyanid ng 52,653.45 219,823 0 10
1 1	1.488	,, Cyaniaing 17,310 6 5	105 105 00
2	0.773	,, General Mine Expenses 18,257 15 1	105,125.03 £438,882 12
		" Mine Development 9,379 10 11	
2	3.276	,, Head Office Expenditure 20,102 15 9	
		Salaries, Managerial, Directors' and Auditors' Fees, Exchange, Gene- ral Expenses, Printing, Sta- tionery, etc.	
9	1.572	£169,193 8 8	
)	5 930	,, Balance carried down 269,689 3 10	
_		9400 000 40	10 F 100
·	7.502	£438,882 12 6	49 7.502 £438,882 12
	-		
		"Balance to Appropriation Account£283,966 0 11	By Balance brought down£269,689 3 1
			,, Additional Revenue— Rents, Commissions, etc 14,276 17
			14,270 17
		£283,966 0 11	£283,966 0 1
		£283,966 0 11	£283,966 0

Dr.

Appropriation Account.

Cr.

To Government of the Union of South Africa— Estimated Profits Tax for 1916 £ Estimated Percentage of Net Produce for 1916 in respect of Undermining Rights of Bewaarplaatsen, etc	226,790 2 0 29,112 5 9	By Balance at 31st December, 1915	r ended
	55,902 7 9		
Less amount over-estimated for '15	0 5 0		
War Levy (for period to March 31, 1917)	90,000 0 0 10,000 0 0 200,000 0 0 930 6 7 2,232 10 3 5,250 0 0 £284,341 17 6		
., balance to balance Sheet	122,102 5 9		
	£406,444 3 3		£406,414 3 3

J. V. BLINKHORN, Secretary.

GEORGE ALBU, Chairman. ARTHUR FRENCH, Director

To the Shareholders,

MEYER & CHARLTON G.M. CO., LTD.

We report that we have examined the above Balance Sheet and accompanying Profit and Loss and Appropriation Accounts with the Books and Vouchers of the Company in Johannesburg, from 1st January to 31st December, 1916, and with the Accounts received from London, and have obtained all the information and explanation; we have required as Auditors. In our opinion such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs according to the best of our information and the explanations given to us, and as shown by the Books of the Company.

C. L. ANDERSSON & CO.,

F. W. DIAMOND,

W. DIAMONE, Incorporated Accountants, Auditors.

AURORA WEST UNITED GOLD MINING COMPANY,

LIMITED.

(Incorporated in the Transvaal.)

Directorate: Sir George Albu, Bart (Chairman and Managing Director); Leopold Albu, alternate II, W. Dalton; Arthur French, Manager; J. K. Digby. Secretary and Head Office: J. V. Blinkhorn, General Mining Buildings (P.O. Box 1173), Johannesburg, London Committee: P. G. Hamilton Carvill, Jacob Freudenthal,

F. W. Chambers. London Secretary and Office; T. Fred i k Thorne, 63/4 Winchester House, Old Broad Street, E.C.2. Paris Agents and Office; General Mining and Finance Corporation, Ltd., 29. Rue Taitbout, Paris.

REPORT OF THE DIRECTORS

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Friday, the 29th day of June, 1917, at 12 o'clock noon, in the Board Room, General Mining Buildings, Johannesburg.

To the Shareholders.

AURORA WEST UNITED G.M. CO., LTD. Johannesburg.

Gentlemen.

Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1916, together with the Balance Sheet, Profit and Loss and Appropriation Accounts at that date. These are accompanied by the Reports of the Auditors and the Manager. date. These the Manager,

CAPITAL.

The total Capital issued remains unaltered at £106,352 10s., divided into 212.705 shares of 10s. each, and your Directors are authorised from time to time to increase the Capital by the creation of new shares of the nominal value of 10s, not exceeding in the aggregate 387,295 shares, and to deal with such shares as they deem fit.

PROPERTY.

The Property consists of a mynpacht (being also freehold portion of the farm Paardckraal No. 42), equivalent to 3.5624 mining claims, which, together with the ground held under claim licences, makes a total area of 155.0517 mining claims; of these, 117.3927 are situated on the reef and 37.659 north of the outcrop. In addition, the Company helds under higher hydrographs are as a follower. the Company holds water rights, bewaarplaatsen, etc., as follows:

	Mining Claims.
Water-right No. 663 on Southern Boundary of Paarde-kraal	
Water-right No. 522	
30 Bewaarplaatsen, Nos. 1/30	19.3912
6 Machine Stands, Nos. 37, 38 and 137, 140	1.8122
4 Stands, Nos. 116, 141, 220 and 221	0.2904
	50.0058

PROFIT AND FINANCIAL.

The Profit and Loss Account shows that the total revenue for the Problem and Loss Account shows that the total revenue for the year amounted to £219.832 2s. 6d., and the Working Expenditure to £167.783 0s. 9d., leaving a gross profit of £52.049 1s. 9d. After providing for interest on temporary loans. Profits Tax, War Levy and the assessments made on your Company by the Government for the Miners' Phthisis Compensation Fund, there was a balance of unappropriated profit amounting to £42,499 19s.
9d. Of this amount the sum of £7,508 3s. 10d. was expended on shaft sinking and additions to machinery and plant, and the balance utilised in the reduction of the liability of the Company.
The profit is, therefore, unavailable for distribution, and, to lowing precedent, your Directors have applied the amount in writing down the book value of the mine equipment.

The financial position at the date the accounts were made up was as follows:—

was as follows:

LIABILITIES						
Temporary Loans from the General Mining and Finance Corporation, Ltd., with accrued interest		7	-			
•						
Sui dry Creditors and Credit Balances	20,076	13	3			
Profits Tax for the year 1916 (esti-	1,790	6	0			
War Levy		3	U			
				£67,539	9	10
				0		
Liquid Asse	rs.					
Stores	£20,616	13	1			
	787					
Payments in Advance	2,172	10	2			
Sundry Debtors	1,909	13	2			
	25,486	7	5			
Cash at Bank, on Hand, and Gold on Deposit with Bankers	12,950	3	1			
-				38,436	10	6
Excess of Liabilities over Liquid	Assets			£29,102	19	4

GOLD PRODUCTION.

During the year the tull mill of 80 stamps ran for 334.27 days, and crushed 179.410 tons of ore, yielding gold, etc., to the value of £216.961 19s. 1d., or 24s. 2.222d. per ton. The working costs amounted to £167.783 0s. 9d., equ.l to 18s. 8.437d. per ton milled, leaving a profit on mining operations of £49.178 18s. 4d., or 5s. 5.785d. per ton. As compared with the previous year, the yield shows an increase of 1.702d. per ton, and the working costs a decrease of 5.557d. per ton crushed.

ORE RESERVES.

The fully developed payable Ore Reserves at the 31st December last are estimated by your Manager at 502,320 mining tons, of an average value of 5.62 dwts, per ton over a width of 41.69 inches. In addition, there are approximately 68,500 tons of partially-developed ore of an estimated value of 5.2 dwts, over 42 inches.

Aurora West United Gold Mining Company, Limited—continued.

GENERAL.

Notwithstanding the heavy increase in the cost of mining supplies during the period, the working profit for the past year reflects an increase of £7,967 10s. over that for 1915. The debt due by the Company to the General Mining and Finance Corporation, Ltd., has been reduced by £36,207 3s. 10d., and would have shown a still further material diminution but for the necessity, owing to war conditions, of largely increasing the stock of stores on hand.

DIRECTORS.

You will be requested to elect two Directors in the place of Messrs. Leopold Albu and Arthur French, who retire in accordance with the Articles of Association, but are eligible and offer themselves for re-election.

AUDITORS.

You will be asked to vote remuneration for the past audit and to appoint Auditors for the ensuing year in place of Mr. Henry Hains and Messrs. Fraser and Mackenzie, who retire, but, being religible, offer themselves for re-appointment.

GEORGE ALBU,

Chairman.

Johannesburg,

7th March, 1917.

Dr. Profit and Loss Account for the Year ended 31st December, 1916. Cr.

(179,410 Tons Milled.)

Cost per ton. Value per ton d. d. 2.465 To Mining £91,550 3 2 Fine Gold. By Gold Won-Ozs. 5.277 ,, Sorting, Crushing and Transport ... 3,945 2 0 From Milling . 37,450.34 £156,351 19 1 17 5.146 9.854 ,, Milling 8.565 ,, Cyaniding 6 9.076 ,, Cyaniding 14,517.44 60,610 0 0 15.374 18 6 2 0.585 , General Mine Expenses 18,379 9 10 51,967.78 24 - 2.222£216,961 19 1 1 11.128 ,, Development 17,288 15 3 0 6.563 ,, Head Office Expenditure-Salaries £1,130 0 0 Directors' and Auditors' Fees 2,212 11 3 557 11 0 Exchange Gereral Expenses, Stationery, Print-1,006 8 4 ing, etc. 4.906 10 7 18 8.437 167,783 0 9 5.785 , Balance carried down ... 49.178 18 4 £216,961 19 1 24 2.222 2,222 £216,961 19 1 24 By Balance brought down £49,178 18 4 " Additional Revenue— Rents, Commissions, etc. To Balance to Appropriation Account ... £52,049 1 9 2.870 3 3 £52.049 1 £52.049 1

Dr. Appropriation Account for the Year ended 31st December, 1916. Cr.

To Interest	£5,092 19 1 By Balance of Profit and Loss for the year ended 31st December, 1916, brought down £52,049 1 9
Estimated Profits Tax for 1916	1,790 6 0
Less over-estimated, 1915	1 2 0
,, War Levy—	1,789 1 0
For Period ending 31st March, 1917	1,423 10 3
" Miners' Phthisis Compensation	1,213 8 8
	9,349 2 0
., Balance to Balance Sheet	42,499 19 9
	£52,049 1 9

Aurora West United Gold Mining Company, Limited-continued.

Dr. BAL	ANCE SHEET	AT 3	Blst DECEMBER, 1916. Cr.
o Capital Authorised 600,000 Shares of 100			At December 31, Expenditure, 1915. 1916. Total.
each Shares of 100	£300,000 0 0	1	By Property £121,486 0 2 - £124,486 0 2
lesnel: 212.705 Shares of 100 cach, is at 31st December 191 General Migracy and Finance Co.	£106,352	10 0	Mine Equipment— Perman nt Works . 18,960-11 8 £4.858 9 1 23,819 0 9 Machinery & Plant 47,840 9 9 2,649 14 9 50,490 4 6 Buildings
p ration— Advances, as at December 31, 191			£198,629 18 11 £7,508 3 10 £206,138 2 9
Decrease during 1916 Sundry Creditors and Cred		7 7	Written At Dec. 31,
Balances		13 3	By Property — £124,486 0 2
Red motion in excess of Cost, a at December 31, 1915 increase during 1916	. 24,601 0 10 . 1,124 19 11		Mine Equipment— Permanent Works
Covernment of the Union of Soat		0 9	Baildings 3,861 16 3 3,481 1 1
Africa— Estimated Profits Tax for 1916 . Estimated War Levy under Ac	. 1,790 6 0 t		£42,499 19 9£163,638 3 · 0
24 of 1915 and Act 34 of 191	6 895 3 0 2,685	5 9 6	
Balance of Appropriation Account Profit for 1916 brought forward	t— 1 42,499 19 9		, Minc Development—502,320 tons fully developed Nil.
ess written off Mine Equipmer per contra	t		,, Furniture
		ril	, Stores on Hand— As at 31st December, 1915 £7,714 9 2
			Increase during 1916 12,902 3 11 29,616 13 4
•			,, Investments-
CONTINGENT LIABILITIES.			Witwatersrand Native Labour Association, Ltd.—286 shares of
watersrand Native Labour Association, Ltd.—8s. per share us)-		£1 each, 12s. paid up.
d Motual Assurance Co., Ltd	114 8 0		Rand Mutual Assurance Co., Ltd. —68 shares of £10 each, £6 paid up.
tt per share uncalled on (shares	8 272 0 0 g		Witwatersrand Co-operative Smelting Works, Ltd.—423 shares of £1 each, 8s, paid up.
Works, Ltd.—12s, per share use called on 423 sharestive Recruiting Corporation, Ltd. (Deposit Account)—13s, 6d, p.	253 16 0 I.		Native Recruiting Corporation, Ltd.—17 shares of £1 each, fully paid. Deposit of 6s. 6d.
native uncalled on complement of 1.490 natives	rt .		each on the allotted complement of 1.490 natives (being part of
of 1,450 hatties	£1.645 19 0		total liability under agreement of £1 per native) 787 If 6
	21.070 13 0		Sundry Debtors 1,909 13 2 ,, Payments in Advance—
			Insurances, Recruiting Fees, etc. 2,172 10 2
4. 4. 4.24.2			Balance due in respect of 987 per cent. advance of the estimated
			value of gold produced in Dec- ember, 1916 7,880 0 0
			Estimated balance due on realisa- tion in respect of gold unrealised
A SW S A			since outbreak of war 11 0 0
So an ere in special section in the section of the			., Cash with Bankers and on hand 5,059 3 1
	£202,610	8 0 7	£202,618 0
	-	*	

J. V. BLINKHORN, Secretary,

GEORGE ALBU, Chairman.
ARTHUR FRENCH, Director.

To the Shareholders.

AURORA WEST UNITED G.M. CO. LTD.

We report that we have examine the above Palance Sheet and accompanying Profit and Loss and Appropriation Accounts with the Books and Vouchers of the Company in Johannesburg, from 1st January, to 31st December, 1916, and with the Accounts received from London, and have obtained all the information and explanations we have required as Auditors. In our opinion, such Palance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs according to the best of our information and the explanations given to us, and as shown by the Books of the Company.

FRASER & MACKENZIE, HENRY HAINS.

MINES, LIMITED. WEST RAND CONSOLIDATED

£2,275,099

£2,025,000

ISSUED CAPITAL

£2,001,124

In 1,979,421 Ordinary Shares of £1 each, and 25,000 Defeired Shares of £1 each.

DEBENTURES outstanding at 31st March, 1917

£364.840

Directorate: Sir George Albu, Bart, (Chairman and Managing Director); Leopold Alba, alternate S. Benning; C. S. Goldman, M.P., alternate, R. Goldman; H. Newhouse; Arthur French; J. Friedlander, alternate, G. C. Fitzpatick; W. H. Dawe; S. C. Bluck; H. W. Dalton, Manager: D. T. Morton, Secretary and Head Office: J. V. Blinkhorn, General Mining Buildings (P.O.

Box 1173. Johannesburg. London Committee: Leopold Albu (Chairman), J. Friedenthal, C. S. Goldman, M.P., J. Kitchin, J. Friedeluder, Chas. Pakeman. London Secretary and Office: T. Frederick Thorne, 63/4, Winchester House, Old Broad Street. E.C. 2. Paris Ag and office: General Mining and Finance Corporation. Limited, 29. Rue Taitbout, Paris.

REPORT OF THE DIRECTORS

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Twelfth Ordinary General Meeting, held on Thursday, the 28th June, 1917, at four o'clock in the afternoon, in the Board Room, General Mining Buildings, Johannesburg.

To the Shareholders, WEST RAND CONSOLIDATED MINES, LTD.

Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1916, together with Balance Sheet, Frost and Loss and Appropriation Accounts at that date. The Reports of the Audtiors and the Manager are attached.

CAPITAL.

The authorised capital is £2,275,000, divided into 2,250,000
Ordinary Shares and 25,000 Deferred Shares of £1 each. The
whole of the Deferred Shares and 1,979,424 Ordinary Shares have
been issued and are fully paid up. The registered capital is
£2 025,000

DEBENTURES.

The Debentures outstanding at the 31st December, 1915, amounted to £444,410. During the year under review your Directors purchesed further Debentures to the amount of £79,570, at a total descount of £5,143 9s. 9d. The total amount of Debentures now outstanding is therefore £364,840.

On the 1st Junuary, 1916, Debentures to the value of £5,590 were held on account of the £25,000 to be redeemed on the 1st September 1st, as stated in the previous report. Of the £79,570, purchased during the year, £19,410 were therefore required to compl.te the redemption for that period, thus leaving Debentures to the value of £60,160, on hand to meet future redemptions, so that, even if no further Debentures are purchased, no drawings will be required until September, 1919. will be required until September, 1919.

PROPERTY

The property consists of 1,986.3573 mining claims, situate as
 Farm
 Luipaardsvlei
 No. 8
 1.796.2968

 Farm
 Uitvalfontein
 No. 2
 107.0411

 Farm
 Rictvlei
 No. 113
 62.9834

 Farm
 Waterval
 No. 74
 20.0560
 Claims.

Total ... 1,986,3573

The Main Reef Series is contained in about 1,956 claims (1,834 in one complet block); of these, 686 claims are also underlaid by the Battery Reef. There are 30 claims no the of the Peef.

The Company also holds the following Water-rights and Be-

						ning Claims.
water-right No	o. 507		 	 		1.7983
,,	- 508	 	 			1.8614
,,	558	 	 			0.8976
"	637	 	 			6.0174
23	617	 	 	 	 	6.3168
. ,	628	 	 	 		22 9536
.,	610	 	 			21 9960
,,	252	 	 			6.2448
,,	253	 		 		5.1144
,,	237	 	 	 		4 0800
•,•						3.1752
,,		 	 	 		9.1325
,,		 	 	 ٠.,		7.1573
,,	614	 	 	 		9.0145

. 111 7898

17 Bewaarplaatsen, situate on Water-right No. 628 11.3333

In addition, the Company bolds by beschold a Water-right situate on the farm Waterval No. 124, of an area, expressed in mining claims, of 12.74, and four Mining Stands.

PROFIT AND FINANCIAL.

The francial position is as follows:—

The Profit and Loss Account shows a working profit for the year of \$85,977 4s. 0d., which, with the inclusion of Sundry Revenue, amounting to £22,052 8s. 5d., mikes a gross profit of £108,129 12s. 5d. This, added to the credit belance of £276,546 12s. 1 J. brought forward from the previous year, gives a total credit of £384 576 5s. 3d, which has been dealt with as follows:—

Laterrei on December 1.

£384,576 5 3

32,763 14 4

The following statement shows the receipts and expenditure of the Company from the date of amalgamation (31st May, 1907) to the close of the year under review, and cash on hand at the

Cash on hand at 31st May, 1907, on amalgamation, as per Balance Sheet at that date:—
West Rand Consolidated Mines, Ltd. 2200,473 3 6
Violet Consolidated G.M. Co., Ltd.,
and West Rand Mines, Ltd. 155,046 4 4

Less Sundry Creditors at that date (since paid) (since paid) 16,667 4 6 -£138 852 -3 · 4

Book Value of other Liquid Assets held at date of | Sundry Revenue from date of Amalgamation to | 19,458 | 0 2 | 2 | Sundry Revenue from date of Amalgamation to | 17,526 | 16 | 10 | 0 4 to 0 | Cursbing (America 31, 1908) | 17,526 | 16 | 10 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 | 0 1 |

£1,193,107 18 10 Capital Expenditure from date of Amalgamation to .1. Becomier, 1918; P. 11. Seconder, 1918; P. 11. Seconder, 1918; P. 11. Seconder, 1918; S. 12. Seconder, 1918; £897,699 0 52,620,883 12 3

West Rand Consolidated Mines, Limited -continued

Government Profit. Tax from 1908 to 1916 in				
clusive	35,545	7	3	
Special War Levy	. 7,272	16	11	
Dividend No 1 of 3, per cent				
Interest on Debendures				
Debenture Trustee's Fees				
Dehentures Bought in Market				
Depreciation on Stores				
Miners' Phthisis Compensation	25,717	3	6	
French Fiscal Taxes	2,935	0	0	
English Income Tax		5	11	
Liquid Assets, Furniture, Live Stock, an				
Vehicles, as per Balance Sheet (after deduct	. •			
ing Current Liabilities)	. 163,043	1.4	0	

£t,193,107 18 10

GULD PRODUCTION,

The fall mill of 100 stamps ran 310.35 days, and (with tube mills) crushed 402,590 tons, yielding gold to the value of £450,154 6s. Sd., equal to 23s 10.234d, per ton Working Expenditure amounted to £394,177 2s. 8d., or 19s. 6.980d, per ton, leaving a profit from mining operations for the period of £85,977 4s. 0d.

ORE RESERVES.

ORE RESERVES.

The payable ore reserves are estimated by your Manager at 1,600,000 mining tons, fully developed, of an average assay value of 61 dwts, over a stoping width of 50 ins.; there are also approximately 404,000 tons of partially developed payable ore of an estimated value of 8.3 dwts, per ton.

In addition to these reserves, there is a large tonnage in suspense, of which at least 150,000 tons are estimated to be payable. These figures show a decrease of approximately 90,000 tons of fully and partially developed payable ore as compared with the reserves at the close of the previous year, but an increase in average value of about 0.4 dwt, per ton. The estimated payable tonnage in suspense largely exceeds the corresponding figure at the end of 1915.

GENERAL.

The reduction of £7,553 0s. 4d. in the working profit for the past year as compared with the previous twelve months is almost entirely due to the increased cost of mining supplies and other extraordinary expenditure due to the War.

extraordinary expenditure due to the War.

Arrangements are in course of completion for the acquisition, for a reminal consideration of a portion of the mining area of the West Rand Central G.M. Co., Lid., with the purpose of utilising certain of the underground workings of that Company as a means of developing the isolated block of approximately 20 claims belonging to your Company, situate to the west of the northern portion of the main block of your property.

DIRECTORS.

You will be requested to elect two Directors in place of Mesers. Arthur French and J. Friedlander, who retire in accordance with the Articles of Association, but are eligible and offer themselves for re-election.

AUDITORS.

In terms of the Articles of Association, your Auditors, Mr. E. Dunkwerts and Messrs Ferryman & Goldby, retire, and offer themselves for re-appointment. You will be asked to vote their remuneration for the past audit and to appoint auditors for the ensuing year.

GEORGE ALBU, Chairman. W. H. DAWE, H. NEWHOUSE H. NEW HOUSE S. C. BLACK, ARTHUR FRENCH, G. C. FITZPATRICK, RICHARD GOLDMAN, H. W. DALTON, S. BENNING,

Directors.

Cr.

Johannesburg, 7th March, 1917.

Dr. Profit and Loss Account for Year ended 31st December, 1916. Cr.

S. d. 10 10.283 To Mining		(402,590 Tor	ns Milled.)	
10 10 283 To Mining 10 10 10 10 10 10 10 1	Cost per ton.			
1 5.692 Milling	10 10.283 To Mining	£218,548 7 7	s. d . Fine Gold.	
2 1.831	1 5.692 , Milling	29,677 13 5	14 5.931 From Milling 69,884.987 £291,766 19	
ture————————————————————————————————————	2 1.831 , General Mine Expenses 2 0.982 , Development Redeemed	43,331 16 3	23 10.234 115,009.220	£480,154 6 8
Exchange	ture— Salaries, Directors', Audi- tors and Management			
ery, Printing, etc 1,522 6 10 12,961 6 4 394,177 2 8 55,977 4 0 23 10.234 To Balance carried down £108,029 12 5 By Balance Brought down £108,029 12 5 By Balance Brought down £25,977 4 E108,029 12 5 By Balance Brought down £25,977 4 E108,029 12 5 Dividend on 50,000 Preference Shares of Victoria Falls and Transvaal Power Co , Ltd 4,331 6 8 22,052 8	Exchange 1.43			
## 3.254 ,, Balance carried down ### 55,977 4 0 ### 23 10.234 ### To Balance carried down ### Extra control of the				
To Balance carried down £108,029 12 5 By Balance Brought down £85,977 4 Additional Revenue— Interest, Rents, Commission, ctc. £12,577 12 0 Discount on Debentures purchased for redemption 5,143 9 9 Dividend on 50,000 Preference Shares of Victoria Falls and Transvaal Power Co , Ltd 4,331 6 8	19 6.980 4 3.254 ,, Balance carried down			
Additional Revenue— Interest, Rents, Commission, ctc. £12,577 12 0 Discount on Debentures purchased for redemption	23 10.234	£480,154 6 8	23 10.234	£480,154 6 8
Interest, Rents, Commission, ctc. £12,577 12 0 Discount on Debentures purchase ed for redemption 5,143 9 9 Dividend on 50,000 Preference Shares of Victoria Falls and Transvaal Power Co , Ltd 4,331 6 8	To Balance carried down	£108,029 12 5	By Balance Brought down	£85,977 4 0
ed for redemption		1	Interest, Rents, Commission, etc. £12,577 12	0
Transvaal Power Co , Ltd 4,331 6 8 22,052 8		!	ed for redemption 5,143 9 Dividend on 50,000 Preference	9
£108,029 12 5			Transvaal Power Co , Ltd 4,331 6	8 - 22,052 8 5
		£108,029 12 5		£108,029 12 5

Dr. Appropriation Account for the Year ended 31st December, 1916.

To Interest on Debentures	£22,954 300 370 837	0 1	0	Be	Balance of I December	refit and 31, 1916,	Loss for brought	the year down	ended £108,029	12 5
, Less Over-estimated, 1915 0 ., War Levy (for period to March 31, 1917 Miners' Phthisis Compensation	5,209 5.076 3,765	13	5							
,, Balance to Balance Sheet	£38,511 69,517 £108,029	14	7						£108,029	12 5

West Rand Consolidated Mines, Limited—continued.

Dr.	BALANCE SHE	ET AT	31st DECEMBER, 1916.	Cı	r.
o Capital—	*		At 31st Dec., Expenditure 1915. 1916.	, At 31st De	C.,
Authorised: 2,250,000 Ordinary £1 each 25,000 Deferred S cach	£2,250,000 0 0 hares of £1		£ s. d. £ s. d.	£ s. 1,511,255 0	. d. 10
Registered : 2,0 0,000 Ordinary	£2,275,000 0 0		Permanent Works . 288,196 18 2 22,674 17 11 Machinery & Plant (le s proceeds of sales) 619,535 2 5 11,168 17 11 Buildings	630,704 0	4
25,000 Deferred S each	hares of £1		Reservoirs & Dams 4,079 5 1 Surface Improve-	4,079 5 635 1	1
* ,	£2,025,000 0 0		ments 635 1 11 2,519,420 1 0 36,779 19 2		
Issued: 1,979,424 Ordinary £1 each 25,000 Deferred S	" £1,979,424 0 0		Expenditure on De- velopment Unre- deemed 249,862 12 2 9,923 3		
each		14.424 0 0	£2,769,282 13 2 46,703 2 €		
As per B:linee SI ember, 1915 Less D bentu es p Redemption	ures— neet at Dec 444,410 0 0 crchased for	,	", Furniture	585 (275 1	0 0
,, Share Premium Ac	ecount— 36	64,840 0 0	Increase during 1916 15,858 19 11	43,710	5 0
As per Balance Shember, 1915 ,, Sundry Revenue tion of Company Crushing	223,221 6 6 from incep- y to date of		Witwatersrand Native Labour Asociation, Ltd.—736 shares of £1 each, 12s, paid up and deposit.		
Expended on Fixe		33,701 2 3	Rand Mutual Assurance Co., Ltd.—153 shares of £10 each, £6 paid up.		
,, Sundry Creditors Balances ,, Sundry Debenture For Interest	Holders—	52,965 2 3 38,623 14 3 7,296 16 0	Witwatersrand Co-operative Smelting Works, Ltd.—940 shares of £1 each, 8s. paid up. Native Recruiting Corporation,		
" Unclaimed Divider benture Interest Unclaimed Divider Unclaimed Debent	nds and De- 	3,640 8 7	Ltd.—35 shares of £1 each, fully paid. Deposit of 6s. 6d. each on the alloted complement of 3,938 natives (being part of total linklikes)		
,, Government of th South Africa— Estimated Profits Less Overpaid 1915	Tax for '16 5,209 10 0		bility under agreement of £1 per native)		
Estimated War Act 24 of 19 34 of 1916	15 and Act		"Sundry Debtors	46,275 1 7,195 7,460	5 1
,. Balance of Appro Amount Unappr December 31, Add Balance of 1916, brought	opriated at 1915 276,546 12 10 Profit for	7,813 17 0	Balance due in respect of 983 per cent. advance of the esti- mated value of gold produced in December, 1916 29,365 0 6 Estimated balance due on realisa-		
Contingent L	TAPILITIES. 3	346,064 7 5	nsed since officereak of war 411 0 (29,776	0 0
	s. per share un- ares £294 8 0 ance Co., Ltd.:		, Cash—	3	
shares	612 0 0 perative Smelt- : 12s per share		, Cash at Bankers for Unclaimed Dividends and Debenture In-	81,500	1 6
uncalled on 940 Native Recruiting C Deposit Account native uncalled	shares 564 0 0		terest	3,610	8 7
	£4,128 11 0				
	£3,0	36,404 5 6		£3,036,404	5 (

J V. BLINKHORN, Secretary.

GEORGE ALBU, Chairman.

To the Sharehelders.

WEST RAND CONSOLIDATED MINES, LTD

We report that we have examined the above Balance Sheet and accompanying Pr fit and L so and Appropriation Accounts with the Books and Vouchers of the Company in Johannesburg, from 1st January, 1915, to 31st December, 1916, and with the Accounts received from London, and have obtained all the information and correct view of the state of the Company's affairs according to the best of our information, and the explanations given to us, and as shown by the Books of the Company.

FERRYMAN & COLDBY,

E. DANCKWERTS,

Incorporated Accountants,

Auditors.

Auditors.

Johannesburg,

ROODEPOORT UNITED MAIN REEF GOLD MINING COMPANY, LIMITED.

(Incorporated in the Transvaal.)

CAPITAL (Authorised and Issued) £460,000 In 460,000 Shares of £1 each.

Directorate: Sir George Albu, Bart. (Chairman and Managing Director): Leopold Albu, alternate II. W. Dalton; Arthur French; H. Newhouse: V. J. Ronketti. Manager: F. W. Girdler-Brown. Secretary and Head Office: J. V. Blinkhorn, General Mining Buildings (P.O. Box 1173), Johannesburg. London Committee: J. Freudenthal, F. W. Chambers. London Secretary and Office: T. Frederick Thorne, 63/4, Winchester House, Old Broad Street, E.C.2. Paris Agents and Office: General Mining and Finance Corporation, Limited, 29, Rue Taitbout, Paris.

REPORT OF THE DIRECTORS

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Thursday the 28th day of June, 1917, at 3 o'clock in the afternoon, in the Board Room, General Mining Buildings, Johannesburg.

To the Shareholders.

ROODEPOORT UNITED MAIN REEF G.M. CO., LTD.

Gentlemen,-Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1916, to gether with Balance Sheet and Profit and Loss and Appropriation Accounts at that date. The Reports of the Auditors and the Manager are appended.

CAPITAL

The capital remains unaltered at £460,000 in 460,000 shares of £1 each, all issued and fully paid up.

PROPERTY.

The holdings of the Company are as follows:-Ground held under Mining Title:-

Claim Area

595.2385 claims

of which 458.71 claims are on Reef and 136.53 claims North of the

Ground held under Freehold Title on two portions of the Farm Read quant No. 45:(1 36) Vergen, 441 Source Pools, or 763.50 Acres.

2 Morgen, 50 Squar Roads, or 441 Acres.

Total 362 Morgen, 491 Square Roods, or 767.91 Acres.

In addition, the Company holds the following Water-rights, Be waarplaatsen, etc.:

	Are Min	a expressed ing Claims	l iu
Water-right No. 74		32.84	
Water-right No. 588		5.88	
Water-right No. 653		10.52	
Water-right No. 654		6.46	
Water-right No. A770		46.71	
Water-right No. 713	•••	4.65	
26 Bewaarplaatsen		17.01	
4 Machine Stands		1.50	
24 Stands		1.00	
		126.57	

PROFIT.

The Profit and Loss Account shows that the total revenue for the year from all sources amounted to £417,964–19s. &d., and the operating expenditure to £368,043 is &d., leaving a gross profit of £49,921–18s. This, added to the credit balance of Appropriation Account of £121,838–7s. 10d., brought from the previous year, gives a total of £171,760–5s. 10d., which has been dealt with as under:—

Miners' Phthisis Compensation	£3.057	16	1
Interest	23,076	5	0
Balance of Appropriation Account carried forward	145.626	4	9

£171.760 5 10

Roodepoort United Main Reef Gold Mining Company, Limited—continued.

£35,513 11 4

FINANCIAL POSITION.

The financial position is as follows:-

Liquid Assets.

Cash and Gold in transit	3,755 31,581 2,246	17 7 18	8			
Bundiy Debtors	7,770			£66,148	7	1
Current Liabilit	ies.					
Sundry Creditors for Trade Accounts, Machinery, etc				30,634	15	9
Excess of Liquid Assets over Current						

On the other hand there is a liability of £295,305 5s. 4d. in respect of loans.

GOLD PRODUCTION.

During the year an average of 75 stamps ran 321.57 days, and, with Tube Mills, crushed 412,845 tons of ore, yielding gold, etc., to the value of £411,314 4s. 8d., or 19s. 11.109d. per ton. The working expenditure amounted to £368,043 1s. 8d., equal to 17s. 9.955d. per ton, leaving a gross profit from mining operations of £43,271 3s. (2s. 1.154d. per ton).

ORE RESERVES

The Payable Ore Reserves are estimated by your Manager at 677,273 mining tons of fully developed ore of an average value of 6.03 dwts, over 46 inches, and 110.776 tons of partially developed ore valued at 6.87 dwts. over 45 inches, In addition, there are 602.627 tons of fully and partially developed ore for which there is at present insufficient data for definite valuation, but a considerable portion of which is, in the opinion of your Manager, likely to prove payable.

The fully developed payable reserves reflect a decrease of 43.036 tons, with an increase of 0.13 dwts. in grade as compared with the

previous year. The reduction is due to the raising of the limit of payability consequent on the higher scale of working costs now prevailing by reason of the war.

Although the operations for the past year have not shown the degree of progress anticipated when issuing the provious Annual Reports, there has, nevertheless, been a material improvement. The working profit amounted to £43,271 3s., as compared with £17,258 15s. Id. for the preceding year, and the increase would have been appreciably larger but for the heavy additional cost of stores and other abnormal expenditure consequent on the war, which are estimated by your Manager at approximately £31,000 for the period.

period.

The development of the Kimberley Main Section during the year has continued to disclose satisfactory values. Owing, however, to the very large amount of diadwork in the shape of long crosscuts, which was involved in opening up the lower levels, the ore reserves do not at present reflect the considerable tonnage of good grade ore which will subsequently be developed in this section. The increasing number of new stope faces in this area which will undoubtedly make for better average grade, and therefore tend towards higher profits.

DIRECTORS

You are requested to elect two Directors in the place of Messes. H. Newhouse and Arthur French, who retire in terms of the Articles of Association, but are eligible and offer themselves for re-election.

AUDITORS

In terms of the Articles of Association vour Auditors, Messis. Ferryman & Goldby and Mr. A. Eckart-Beckmann, retire, and offer themselves for re-appointment. You will be asked to vote their remuneration for the past audit and to appoint Auditors for the ensuing year.

GEORGE ALBU, Chairman.

Johannesburg, 7th March, 1917.

Cr. Profit and Loss Account for the Year ended 31st December, 1916. Dr.

(412,845 Tons Milled.)

Cost per ton. s. d. 10 4.350 To Mining			£213,906 1: 14,188 : 29,690 1' 33,823 1:	3 1 1 7 11	s.	8.009	By Gold Won— Ozs Fine Gold. From Milling 67.575.88 £282.126 () 11 3 9
1 5.869 ,, General Mine Charges 2 0.000 ,, Development Redeemed 0 2.564 ,, Head Office Expenditure— Salaries	£1,455	0 0	30,739 41,284 1	4 7			98,519.30	£411,311 4 8
Managing Directors' and Auditors' Fees Exchange General E x p e n s e s, Printing, Stationery,	715 1,050	0 3 8 3						
etc	1,189	8 7	4,409 1	7 1	1			
17 9.955 2 1.154 ,, Balance carried down			£368.043 43,271	1 8 3 0				
19 11.109			£411,314	1 8	19	11.109		£411.314 4 8
To Balance carried down			£49,921 18	8 0			By Balance brought down Additional Revenue—	£43,271 3 0
							Rents, Commissions, etc.	6,650 15 0
			£49,921 1	3 0				£49,921 18 0

Appropriation Account for the Year ended 31st December, 1916. Cr. Dr.

To Interest, ,, Miners' Phthisis Compensation, ,, Balance to Balance Sheet	£23,076 5 0 3,057 16 1 23,787 16 11	By Balance of Profit and Loss for the year ended 31st December, 1916, brought down	£49,921 18 0
	£49,921 18 0		£49,921 18 0

Roodepoort United Main Reef Gold Mining Company, Limited-continued.

BALANCE SHEET AT 31st DECEMBER, 1916.

Cr.

' Co d ad 's ned		-		At 31st Dec., Expenditure, At 31st De	40
3.1 ach, a per				1915. 1916 1916.	,
i 1 t D · inb·r	£450,6.40		O	By Property £233,943 1 9 — £203,948	1 9
Person Assount	2137,171	, ,		, Mine Equipment and	
As per Ballince Sheet at 31st December, 1915	75,000	0	0	Development	1 11
A per Balance Sheet at 31st De-				Machinery and Plant (less Pinterds of Decrease, State of 176 440 Mg 30 1 1067 0 5 475 177 b	c =
cember 1915	70,625	0	0	Sales) 476,440 16 10 1,263 0 5 475,177 10	5 3
Loans	£605,625	0	0	Buildings 42,450 19 6 3,063 0 6 45,514	
With accided interest	295,305	5	4	Reservoirs & Dams 11,644 11 2 — 11,644 1	1 2
Sundry Creditors	30.634	15	9	£922.148 II 9 £10,621 9 6 932,770	1 3
Balance of Appropriation Account— Amoun' unappropriated at 31st December, 1915 £	121.838 7 10			Expenditure on De velopment Unredeemed 71,475 12 7 6,383 11 9 77,859	4 4
Add Profit for 1916, brought for- ward	23,787 16 11	4	9	£993.624 4 4 £17,005 1 31,010,629	5 7
Contingent Liabilities— Witwatersrand Native Labour As-				, Furniture	
sociation, Ltd.— 8s. per share uncalled on 1,149	450 12 0			ber, 1915	
shares	459 12 0			31,581	7 9
Rand Mutual Assurance Co., Ltd.— £4 per share uncalled on 140				Investments—	
shares	560 0 0			Witwatersrand Native Labour As-	
Witwatersrand Co Operative Smelting Works, Ltd.— 12s. per share uncalled on 1,050				sociation. Ltd.— 1,149 shares of £1 each, 12s. paid up and Deposit.	ž.
shares	630 Q O			and Mutual Assurance Co., Ltd.—	
Native Recruiting Corporation, Ltd. (Deposit Account)—				140 shares of £10 each, £6 paid up.	
complement of 4,052 natives	2,735 2 0			Witwatersrand Co-Operative Smel-	
Machinery on Order	Nil.			ting Works, Ltd.— 1,050 shares of £1 each, 8s. paid	
	£4,384 1 0			up. ' Native Recruiting Cornoration, Ltd.	
The second of th				37-shares of £1 each, fully paid.	
				Deposit of 6s. 6d each on the allotted complement of 4,052	
				natives (being part of the total	
				liability under agreement of	
				£1 per native) 2,246_18 ,, Sundry Debtors 4,449_16	
				,, Payments in Advance—	. 9
				Insurances, Recruiting Fees, etc. 3,755 17, Gold in Transit—	7 8
				Balance due in respect of 993 per cent. advance of the estimated	
				va'ue of Gold produced in De- cember, 1916 £17,534 0 0 Estimated balance due on realisa-	
				tion in respect of Gold unrealised since outbreak of War 1,331 0 0	
				,, Cash with Bankers and on Hand 18.865 0 5,249 6	0 0 5 11

J. V. BLINKHORN, Secretary.

GEORGE ALBU, Chairman.

ARTHUR FRENCH, Director.

£1,077.191

5 10

To the Shareholders,

Dr.

ROODEPOORT UNITED MAIN REEF G.M. CO., LTD.,

We report that we have examined the above Balance Sheet, and accompanying Profit and Loss and Appropriation Accounts, with the Books and Vouchers of the Company in Johannesburg, from 1st January to 31st December, 1916, and with the accounts received from Localen, and have obtained all the inform tron and explanations we have required as Anditors. In our opinion such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs according to the best of our information and the explanations given to us, and as shown by the Books of the Company.

£1,077.191 5 10

FERRYMAN & GOLDBY,

A. ECKART-BECKMANN.
Incorporated Accountants.
Auditors.

NEW GOCH GOLD MINES, LTD.

(Incorporated in the Transvaal.)

CAPITAL (Authorised and Issued)

£550,000

In 550,000 Shares of £1 each.

Directorate: Sir George Albu, Bart. (Chairman and Managing Director); Leopold Albu, alternate H. W. Dalton; Jacob Freudenthal, alternate S. Benning; Arthur French. Manager: Geo. G. Holmes. Secretary and Head Office: J. V. Blinkhorn, General Min.ng Buillings (P.O. Box 1173), Johannesburg. London

Committee: P. G. Hamilton Carvill, Jacob Freudenthal, Robert Whyt.: Lo. don See eta y and Office: T. Frederick Thor e, 63.4, Winchester Horse, Old Broad Street, E.C.2. Paris Agents and Office: Gan red Mining and Finance Corporation, Ltd., 29 Rue Tailbank Paris Taithout, Paris.

REPORT OF THE DIRECTORS

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Thursday, the 28th day of June, 1917, at 12 o'clock noon, in the Board Room, General Mining Buildings, Johannesburg.

To the Shareholders.

NEW GOCH GOLD MINES, HMITED.

Gentlemen,—Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1916, together with the Balance Sheet and Profit and Loss and Appropriation Accounts at that date. These are accompanied by the Reports of the Auditors and Manager.

CAPITAL

The Capital remains unaltered at £550,000, in shares of £1 each, all issued and fully paid up.

PROPERTY.

Your Property consists of an area of 149.5910 claims, of which 126.735 are on heef and 22.856 situate north of the outcrop of the Reef Series. In addition to the above mentioned claim areas, the Company holds two water rights, bewaarplaatsen, machine stands and other ground, as follows:—

(a) Water Right No. 334, equivalent to 16.3842 mining claims in area, situate 3,250 feet south of the reef in the outcrop

(b) Water Right Yor. 307-8, equivalent to 10.29 mining claims in area, situate 3.930 feet south of the outcrop in the Henry Nourse.

(c) Machine stand adjacent to Water I ight Nos. 307-8, in area 0.17 of a claim.

(d) Bewaarplaats on Water Right Nos. 307-8, in area 0.67 of a elaim.

(e) Four mining stands on claims, (f) Freehold Stand 261, in the Township of Jeppestown South.

PROFIT AND FINANCIAL.

The profit from mining operations for the past year was £107.115

5s. 11d., and with the addition of sundry revenue amounting to £5,748 1s. 9d., the gress profit totalled £112.865 5s. 8d. This, added to the credit balance of £32.623 16s. 4d., brought forward from the previous year, gives a total credit of £145,487 2s., which has been dea't with as follows:

Dividend No. 8 of 5 per cent. ... £27,500 0 0

Dividend No. 9 of 5 per cent. ... £27,500 0 0

£55,000 0 0 Estimated Government Profits Tax for 1916 (plus amount under-estimated for 1915) 5.756 12 0 4,085 3 2 £528 18 10 New Development 1,000 10 1,529 8 11 Miners' Phthisis and Other Com pensation TaxBalance being unappropriated pro-2,964 4 5 286 2 6 75,965 11 0 fit earried forward

GOLD PRODUCTION.

The Mill of 120 stamps ran for 347.572 days, and (wit') tube mills) crushed 365,000 tons, yielding gold to the value of £355,522 15s. 11d., equal to 19s. 5.765d. per ton. The working costs totaled £248,407 12s. (13s. 7.336.l. per ton), leaving a gross profit from mining operations of £107,115 5s. 11d. (5s. 10.432d. per ton). As compared with the previous year, the yield shows an increase of 6.362d per ton, and the working costs a reduction of 3.703d. per ton miled.

ORE RESERVES.

The fully-developed payable ore reserves at the ZIst December last are estimated by your Manager at 404,185 mining tons of an average value of 5.32 dwts., calculated over an average width of 77 inches. In addition, there are 48.093 tons of partially-developed ore of an estimated value of 4.76 dwts. per ton. There are also 195.065 tons of developed one of an average value of 2.87 dwts. over 46 inches, which are at present classified as unpayable.

The faulted nature of the recfs in the lower levels of the mine, referred to in the previous Annual Report of your Directors, is responsible to a large extent for the reduction in the ore reserves as compared with the end of 1915.

Arrangements for the working by your Company of 20 claims of the City Deep Company's mining area immediately adjoining the New Goch southern boundary have now been completed. The the New Goen southern boundary have now been completed. The new essary agreement between the two companies is in course of p equation for signature, and will provide for the mining of the claims for joint account on the basis of the statement made by your Chairman at the Annual Meeting of Shareholders held in July last.

The unappropriated profit of £75.965 11s, carried forward to the new year is represented as to approximately £42.000, by stores, etc., on hand, and the briance by cash. The latter is being retained chiefly for the purpose of shaft sinking in and the development of the 20 City Deep claims referred to in the previous paragraph.

DIRECTORS.

You will be requested to elect two Directors in place of Messrs, J. Freu lenthal and Arthur French, who retire in accordance with the Articles of Association, but are eligible and offer themselves

AUDITORS

You will be ask d to vote remuneration for the past andit and to appoint Auditors for the ensuing year in the place of Messrs. Douglas, Low & Co., who retire, but, being eligible, offer themselves for re-appointment

GEORGE ALBU, Chairman

Johannesburg, 7th March, 1917.

£145,487 2 0

New Goch Gold Mines, Limited. -continued.

Dr. PROFIT & LOSS ACCOUNT for the YEAR ENDED 31st DECEMBER, 1916. Cr. (365,000 Tons Milled.)

Cos	t per to d.	on.						lue per	ton.		
7		To Mining		£1 (9:7	13	5	8.	d.	By Gold Won-	Ozs.	
0	7.847	, Sorting, Crushing and		44.0	4.	_ '				Fine Gold.	
1	7.692	Transport		110				5,205		54,351 231 £226,916 10	
	9.021	, Cyaniding		51 953			7	0.563	,, Cyan.ding	30,804 040 128,606 5	5
	5.189	, General Mine Expenses		26,141						OF 155 071	
0	6.421	, Mine Development		9,765						85,155.271	£355,522 15 11
	5.063	Head Office Expenditure Salaries	£1,725 0		10	10					
		Directors' & Auditors' Fees	3,160 3	4 .							
		Exchange	867 10 1,947 8								
				7,700	2	2					
13	7.336			248,407	12	0					
5 :	0.432	" Balance carried down .		107.115	3	11					
19	5.768			£355.522	15	11	19	5.768			£355,522 15 11
				-		_					
		To Balance to Appropria		£112,863	5	8			By Balance broug ,, Additional Re		£107,115 3 11
				222,000					Rents, Commi		5,748 1 9
				£112 853	5	8					£112,863 5 8

Dr. APPROPRIATION ACCOUNT.

Cr.

To Government of the Union of South				By Balance of Profit and Loss for the year ended 31st December, 1916,		
Estimated Profits Tax, 1916 Plus under-estimated in 1915	£5,741 16 0 14 16 0			brought down	£112,863	5 8
	5.756 12 0			-		
War Levy (for period to 31st March, 1917)	4,035 3 2					
" English Income Tax		9,841 15 286 2				
"Miners' Phthisis and Other Compensation			5			
,, Dividend—						
No. 8 of 5 per cent., on £550.000, at 30 6,16	27,500 0 0					
No. 9 of 5 per cent., on £550,000, at 31/12 16	27,500 0 0	55.000 0	0			
,, Revenue appropriated for Capital Expenditure—						
Expended on Machinery and Plant	528 13 10					
Expended on New Development	1,000 10 1					
		1,529 8	11			
	-	69,521 11	0			
,, Balance to Balance Sheet		43.341 14				
	£	112,863 5	8		£112,863	5 8
	-					

New Goch Gold Mines, Limited.—continued.

BALANCE SHEET AT 31st December, 1916. Dr.

Cr.

To Capital (Authorised and Issued—550,000 Shares of £1 each, fully paid, as per Balance Shect at 31st December, 1915, Share Premium Account—		£550,000 0	0	At 31st Dec., Expenditure, At 31st Dec., 1915. 1916. 1916. By Property£520,486 12 7 £520,486 12 7 ,, Mine Equipment and Development—
As per Balance Sheet at 31st December, 1915	£106,250 0 (Permanent Works 95,573 6 4 Machinery and Plant (less Proceeds of Sales) 576,429 4 8 528 18 10 376,958 3 6 Buildings 22,000 13 3 Reservoirs and Dams 3,813 12 4 3,813 12 4
ber, 1915£424,439 8 9 A d d transferred from Appropriation Account during year 1916 1,529 8 11				£1,018.303 9 2 £528 18 10 £1,018,832 8 0 Expenditure on De velopment unre-
	425.963 17 8	3 - 532,218 17	8	deemed
Note.—Expended in the annual redemption of Debentures from July 1, 1903 to 1st July, 1915 350,000 0 0 Expended on Equipment and Development in excess of Working Capital provided 75,968 17 8		332.270		### 292 17 4 ### 2
£425.968 17 8				Rand Mutual Assurance Co., Ltd. —83 shares of £10 each, £6 paid up. Witwate.srand Co-operative Smel-
" Sundry Creditors		1,082.218 17 20,939 13 2,906 9 27,500 0	3	ting Works, Ltd.—909 shares of £1 each, 8s. paid up. Native Reconiting Corporation, Ltd.—29 shares of £1 each, fully paid. Deposit of 6s. 6d on the allotted complement of £.178 Natives (being part of the total
Africa— Estimated Profits Tax for 1916 Estimated War Levy under Act 24 of 1915 and 34 of 1916	5,741 16 0 2,870 18 0	ı	0	liability under agreement of £1 3.188 7 3.188 7 3.188 7 3.188 7 3.188 7 3.188 7 3.188
,, Balance' of Appropriation Account— Amount unappropriated at 31st December, 1915	32,623 16 4 43,341 14 8	8.612 14 (G. H. in Transit— Balance due in respect of 93\frac{3}{4} per cent, advance of the estimated value of zild produced in December, 1916
Contingent Liabilities. Witwatersrand Native Labour Association, Ltd.—8s. per share uncalled on 602 shares	240 16 C			unrealised since outbreak of war 274 0 0 Cesh on Hen1 At Binkers, on fixed deposit, plus accound infect to 58,358 6 4 On Current, Dividend and Deben
shares Witwatersrand Co-operative Smelting Works, Ltd.—12s. per share uncalled on 909 shares Native Recuriting Corporation, Ltd., Deposit Account.—13s. 6d. per Native uncalled on complement of 2,178 Natives	352 0 0 545 8 0 1,470 3 0			ture Accounts and on hand <u>18,354 17 11</u> 76,713 4 3
	£2,608 7 0			
	£1	,218,143 5	7	£1,218,143 5 7

J. V. BLINKHORN, Socretary

To the Shareholders.

NEW GOCH GOLD MINES, LIMITED.

ARTHUR PRENCH, Director

We report that we have examined the shope Polaries 51 and the Books and Vouchers of the Company in Johanna have from 1 % from Voulon, and have obtain did 0.0 information and explain in a list named with a true and covered view of information and the explanations given to us, and as shown by the books.

Described a literature of the politic of the laterature of the literature of the laterature of the lat

GEORGE ALBE Chairman

DOUGLAS, LOW & CO., (Incorporated Accountants), Auditors.

Cinderella Consolidated Gold Mines, Limited.

(Incorporated in the Transvaal.)

AUTHORISED CAPITAL - - - £1,500,000 In 1,500,000 Shares of £1 each.

ISSUED CAPITAL - - - £1,159,450 In £1,159,450 Shares of £1 each.

Directorate: Sir George Albu, Bart. (Chairman and Managing Director): S. B. Joel, alternate G. Imroth; Leogeld Alou, alternate H. W. Dalton: Arthur French: John Munro; Jacob Frendenthal, alternate S. Benning. Secretary and Head Office: J. V. Blankhora, General Mining Buildings (P.O. Box 11/3), Johannesburg. London. Committee: P. G. Hamilton Carvill, Jacob Frendenthal, F. W. Chambers. London Secretary and Office: T. Frederick Thorne, of the number of the Heiser, Oal Broad Street, E.C.2. Paris Agents and Office: General Mining. And Finance Corporation, Ltd., 29, Rue Taithout, Paris.

REPORT OF **DIRECTORS** THE

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Friday, the 29th day of June, 1917, at 11 o'clock in the forenoon, in the Board Room, General Mining Buildings, Johannesburg.

Sundry Shares ...

Stores
Sundry Debtors
Payments in Advance (Traurences, etc.)
Cach on Fixed Deposit and on hand at

Exters of Current Liabilities over Liquid Assets

Bankers

Stores .

2,011.1878

To the Shareholders,

CINDERELLA CONSOLIDATED GOLD MINES, LTD.

Gentlemen.—Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st Dec mber, 1916, together with the Falance Sheet and Profit and Loss Account at that date, accompanied by the Report of the Auditors.

CAPITAL.

The issued Capital of the Company remains unaltered at £1.159.450 in shares of £1 each, fully paid.

DEBENTURES.

The amount of Debentures issued remains unaltered at £500,000. As intimated in previous reports, the payment of interest on and the redomption of these Debentures have been postponed for a period expiring 12 months after the termination of the present war.

PROPERTY

During the year the transfer of the ground purchased from the East Rand Proprietary Mines, Ltd,—equal to 16.5030 claims—was following:

effected, and the Company's property now cor	isists of the l
	rea expressed living Claims.
Portion of the Form Lecumpoort No. 4, half under Quitrent title, in extent 525 8155 agree.	
Mynnaelt V . 704, coniv: lent to	376 3903
Minnae's No. 335 convalint to	238.7776
Proprietary Mines Ttd.), equivalent to	2.7403
Claim Area, Leeuwpoort No. 4	1,363.2386

	13.7622	etary Mines, Ltd.)	On Farm Vogelfontein No. 5 (acc East Rand Proprietary Mine Undermining Rights acquired fro	
	30.8400	gelfontein No. 5		
90,4662	45.8640	ort No. 4	ment on Leeuwpoor	
		from the Government 4.169 per cent. of th	(The consideration pa mining rights acquired f as detailed above, is 4 annual net produce of t	
2,101.6540				
		impany holds the foll	In addition, the Cor	
ing Claims. 17.0677 15.8483 55.5030		455, equivalent to . 479. equivalent to . K6, equivalent to .	Water Right No. 4	
8.4190	21	·	Total	
	_	FINANCIAL.		
		on is as follows:— Current Liabilities.	The financial positio	
1,026 7 7	£		Sundry Creditors Debenture Interest (fi	
1,041 13 4	7.	ember, 1916)	1914. to 31st Deed	
2,068 0 11	£7	Liquid Assets.		

£1.163 10 6

12.277 15 7

33,079 3 10

£38.988 17 1

17.537 8 1.751 2 349 6 11

Cinderella Consolidated Gold Mines, Limited—continued.

Receipts.					
Working Capital— 402,100 Original Shares issued at par	E402,100	0	0		
£500,000 5½ per cent. Debentures, fully paid	500,000 25,000		-£902,100 0 0 - 475,000		
Sundry Revenue from inception of Company to date of crushing			475,000 57,900		
Sundry Revenue from commencement of crushing to date			57,658		
Gold won from commencement of crushing to date			1,220,546	2	3
Mines, Ltd., on acquisition of pro- perty and assets of that Company			134,672	14	10
			£2,847,878	0	10
Expenditure			£2,847,878	0	10
Capital Expenditure: Excenditure on Property Permanent Works Machinery and Plant Mine Development Reservoirs and Dams Surface Improvements during 1910 0.3334 Claims purchased for cash during 1911 16.5030 Claims purchased for cash during 1916 Including Transfer Dues, etc., on other	£2,748 400,879 438,428 88,154 308,789 16,546 3,416 297,119 2,438 14,496	13 4 16 11 4 13 19	10 0 7 5 22 4 0 8		•
Capital Expenditure: Exoenditure on Property Pormanent Works Machinery and Plant Buildings Mine Development Reservoirs and Dams Surface Improvements 101.0411 Claims purchased for cash during 1910 0.3334 Claims purchased for cash during 1911 16.5030 Claims purchased for cash	£2,748 400,879 438,428 88,154 308,789 16,546 3,416 297,119 2,438 14,496	13 4 16 11 4 13 19	10 0 7 5 2 4 0	14	

				-	_
Debenture Interest (to May 31, 1914) Debenture Trustees' Fces Interest on Loan Income Tax Profits Tax Miners' Phthisis Compensation Furniture Live Stock, Vehicles, etc. Bearer Warrants (written off) Printing & Stamping Debenture Bonds Depreciation on Stores Debenture Interest due from the 1st June, 1914, to 31st December,			96,250 1,204 13,056 2,429 3,990 6,664 861 5 1,321 6,383 652	3 5 2 2 1 14 3 11 2	5 11 3 8 7
1916, payment of which is deferred in terms of Resolution passed at a Meeting of Debenture-holders held in London on the 26th No- vember, 1914			71,041	13	4
			006.066	17	11
Deduct—		202	2,886,866	17	11
Current Liabilities Less Cash on Hand and other liquid assets (as per Balance	72,068	0 11			
Sheet) .1	33,079	3 10	38,988	17	1
		£2	,847,878	0	10
		-		_	==

GENERAL.

The Mine is still closed down until such time as opportunity arises for re-financing the Company.

DIRECTORS.

You will be requested to elect two Directors in place of Messrs. Leopold Albu and Arthur French, who retire in accordance with the Articles of Association, but are eligible and offer themselves for re-appointment.

AUDITORS.

You will be asked to vote remuneration for the past audit and to appoint Auditors for the ensuing year in place of Messrs. Douglas, Low & Co., who retire, but, being eligible, offer themselves for re-appointment.

GEORGE ALBU, Chairman.

Johannesburg, 7th March, 1917.

Dr. Profit and Loss Account for the Year ended 31st December, 1916. Cr.

To Expenditure— Licences and Mynpacht Dues Insurances Municipal Assessment Rates Mine Maintenance Secretarial and Audit Fees European Agencies Printing, Stationery, Advertising, etc. In connection with Engineer's Report on property	£5,243 16 0 497 7 7 7 709 6 2 1,801 7 3 521 0 0 607 10 0 370 8 6 1,239 15 0	£2,516 18 8 8,473 11 10
	£10,990 10 6	£10,990 10 6

Dr. Appropriation Account for the Year ended 31st December, 1916. Cr.

To Balance of Profit and Loss Account for the Year ended 31st December, 1916, brought down, ,, Debenture Interest— Interest for year to 31st December, 1916, payment of which is deferred in terms of resolution	£8,473 11 10	By Balance to Balance	Sheet	£36,433 14 6
passed at a Meeting of Debenture-holders held in London on 26th November, 1914 h	27.500 0 0			
,, Debenture Trustees' Fees , Miners' Phthisis Compensation	50 0 0 210 5 2			
,, Income Tax, England	199 17 6			
	£36,433 14 6			£36,433 14 6

1010

Cinderella Consolidated Gold Mines, Limited-continued.

Dr.	BALANCE	SHEEL	at	3151	DECEMBE!	R, 1916.			r.
t'aputal -							Expenditure,		
Authorised -						1915. 700,748	1916. 314,496 4 3 =	£715,244	
1,500,000 Ordinary Sh	tares of £1				Plus Payment for Mining Ground pur				
each	£1,500,00	0 0 0			chased from East Rand Proprietary				•
1.stied= 1.159,450 Ordinary St	tures of C1				Mines, Ltd 16.5030 Claims.)				
each, as per Balana	ce Sheet at	£1,159,450	0 0		Nine Equipment and Development —		Decrease.	•	
31st December, 1915 5½ per cent. Debenture	es	500,000			ermanent Mocks .	400,929 13 0	50 0 0	400,879	13
Share Premium Account As per Balance Sheet	at 31st De-	005.000			lachinery & Plant,				
eember, 1915 Sundry Revenue from 1	Inception of	225,000) ()			440,015 9 8	Decrease, 1,587 5 1	438,428	
Company to Date of Transfer from Approp	Crysling . £57,900	0 7 0		1	Buildings Dams	88,154 16 5 16,546 4 4		88,154 16.546	
count—					urface Improvements			3,416	
At 31st December, 19	15 18,45	9 8 8			1.	649,811 4 6	12,858 19 2	1,662.6.0	3
Expended on Fixed A	vss€ts	°76,359	9 15		expenditure on De-				
		£1,960.809	9 15 6 7	8	deemed, less De-				
Sundry Creditors Sundry Debenture Hol	lders	1,020	,	'	velopment paid for by sist dand Pro-				
For Interest due from 1914, to 31st Decemb	n 1st June,	71,04	1 13	4	prictary Mines, Ltd., under agree-		Decrease.		
Unclaimed Debenture As per contra	Interest—	52	2 10	6	ment	310,993 11 2	2,209 0 0	308,789	11
tingent Liabilities-					£1,	960,809 15 8£	10,649 19 2 £	1,971.459	14
Witwatersrand Native sociation, Ltd.—	Labour As-			,, 1	Furniture			. 861	14
8s. per share unca	alled on 664	5 12 0		,, 1	Furniture	etc lading Mach-			
Shares	co Co., Ltd.—			1	inery not yet erectonvestments—			17,537	8-
£4 per share uncalle Native Recruiting Corp	C.1 O.1 = C.1111	4 0 0		,, .	Witwatersrand Nati				
Deposit Account					sociation, Ltd 664 shares of	£1 each, 12s.			
complement of 5		3 7 6			paid up. Rand Mutual Assura	ince Co., Ltd			_
	627	2 19 6			1 share of £10, £ Native Recruiting Ce				
	221	2 13 0.			24 shares of *£ paid, and Dep	1 each, fully			
					each on the	total cömple-			
					ment of 5 nativof total liability	y under agree.			
				,, ;	ment of £1 p^i Sundry Debtors	native)		1.163 1,75 1	
					Pavments in Advan Pash—	?e		3.3	6
					At Bankers on accrued Interest	Deposit, with	6,046 11	2	-
					At Bank and on I	Iard	6.231 4 5)	
							-	- `12.277 -	15
					Cash at Bankers, as Unclaimed Debentur	e Interest		52	10
				,,	Appropriation Accou Loss for 1916 brong	nt			
					Less Balanco una December 31, 191	ppropriated at	8 961 14	9	
					Detember of, 191		. 0 301 14	- 27,4 71	19
		£2.032.93		_					

GEORGE ALBU, Chairman.
ARTHUR FRENCH, Director.

J. V. BLINKHORN, Secretary.

To the Shareholders,

CINDERELLA CONSOLIDATED GOLD MINES, LTD.

We report that we have examined the above Balance Sheet and recognizing Profit and Loss and Appropriation Accounts with the Books and Vouchers of the Company in Johannesburg from 1st January to 31st December, 1916, and with the Accounts received from London, and have obtained all the information and explanations we have required as Auditors. In our opinion, such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs, according to the best of our information and the explanations given to us, and as shown by the Books of the Company.

DOUGLAS, LOW & CO., .

New Steyn Estate Gold Mines, Limited.

(Incorporated in the Transvaal,)

Directorate: Sir George Albu, Bart. (Chairman and Managing Director); Leopold Albu, alternate H. W. Dalton; Jacob Freudenthal, alternate S. Benning; Arthur French. Secretary and Head Office: J. V. Blinkhorn, General Mining Buildings (P.Ö. Box 1173), Johannesburg. London Committee: P. G. Hamilton Carvill, Jacob

Freudenthal, Robert Whyte. London Secretary and Office: T. Frederick Thorne, 63/4, Winchester House, Old Broad Street, E.C.2. Paris Agents and Office: General Mining and Finance Corporation. Ltd., 29, Rue Tutb ut, Paris,

REPORT OF DIRECTORS THE

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Friday, the 29th day of June, 1917, at half-past three o'clock in the afternoon, in the Board Room, General Mining Buildings, Johannesburg.

To the Shareholders,

- NEW STEYN ESTATE GOLD MINES, LIMITED.

Gentlemen,—Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1916, together with the Balance Sheet, Profit and Loss and Appropriation Accounts and Auditors' Report at that date.

The Capital remains unaltered at £300,000, in £1 shares, all issued and fully paid up.

PROPERTY.

Your Property consists of the following:—
(1) The freehold of a portion of the farm Viakfontein, 3,687 acres in extent (equal to 5.7 English square miles), constituting the deep levels of the Roodepoort mines. Upon this the Company owns a mynpacht (No. 261), equivalent to 250.648 claims, together with 499.3357 mining claims on the south and west of the mynpacht, making in all 750.1837 claims.
(2) On the farm Roodepoort No. 43 it holds 250.8928 claims, situate north of the deep level block, and on the southern boundary of the Durban Roodepoort Deep, Ltd.
(3) The freehold of the northern portion of the farm Doornkon.

(3) The freehold of the northern portion of the farm Doornkop.
46, 3,656 acres in extent (equal to 5.7 English square miles).
(4) 20.9386 claims on the farm Vogelstruisfontein No. 55.

Summary,

Mining Claims.

Deep level ground south of the Roodepoort Min's (farms Vlakfontein, Roodepoort and Vogelstruisfontein) ... 1,022.0151

Area of freehold properties, equal to 113 English square miles.

The revenue collected during the year on account of the Company's half-share of the licences from commanics and syndicates owning claims on the freeholds of the farms Vlakfontein and Doorn-kop was £1;203.

FINANCIAL.

The revenue for the year, from interest, licences and rent, amousted to £3,775 5s, 11d., and the expenditure, including cost of administration, claim licences and taxes, to £4,877 3s, 2d., leaving a net loss of £1,101 17s, 3d., which, deducted from the unappropriated profit brought forward from the nevious year of £51,435 7s, 5d., leaves a credit balance of £53,333 10s, 2d, to be carried forward to the current year. The Reserve Account of £51,173 0s, 5d., formed from premiums received from the issue of shares, is unchanged. unchanged.

The financial position is as follows:-

Liquid Assets.

Cash on Fixed Deposit, with Accrued Interest, and on Current Accounts £55,633 12 1 Payments in Advance for Mynpacht 50 10 0 20,735 7 10 - £76.493 1I 8

Liabilities.

359 14 8 Sundry Creditors Excess of Liquid Assets over Liabilities. . .

GENERAL.

Your Directors have taken the opportunity of a visit which Mr. G. A. Denny. Mining Engineer (formerly for many years intimately associated with these Goldfields) is making to the Rand, to request him to make a thorough investigation and report on the influence of the neighbouring mines on your property, and on its development at some future date. Mr. Denny is at present engaged on this work.

DIRECTORS

You will be requested to elect two Directors in place of Messrs J. Frendenthal and Arthur French, who retire in terms of the Articles of Association, but are eligible and offer themselves for

AUDITORS

It is with extreme regret that your Directors have to report the death of one of your Auditors, Mr. J. N. Webb, in November last. Your Directors have not thought it necessary to annoth an Auditor in his stead, and the audit has therefore been completed and the Balance Sheet signed by the late Mr. Webb's coadjutors, Messrs, Douglas, I ow and Co.

. You will be asked to vete terms ψ to the past audit and to cleer an Auditor of Auditors for the ensuing year

GEORGE ALBU, Chairman.

Johannesburg, 7th March, 1917.

New Steyn Estate Gold Mines, Limited—continued.

Dr. BALANCE	SHEET at 31st DECEMBER, 1916.	Cr.
300 000 Shares of £1 each, as per 1 cance Sheet at 31st December, 1915 Reserve Sundry Creditors Unclaimed Dividends—as per contra Balance of Appropriation Account— Prolits unappropriated	By Property— As per Bulance Sheet at December 31st, 1915	8 3
	£408,232 14 7	£408,232 14 7

J V BLINKHORN, Secretary.

GEORGE ALBU, Chairman. ARTHUR FRENCH, Director.

To the Shareholders,

NEW STEYN ESTATE GOLD MINES, LIMITED.

We report that we have examined the above Balance Sheet and accompanying Profit and Loss and Appropriation Accounts with the Books and Vouchers of the Company in Johannesburg, from 1st January to 31st December, 1916, and with the Accounts received from London, and have obtained all the information and explanations we have required as Auditors. In our opinion such Palance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs according to the best of our information and the explanations given to us, and as shown by the Books of the Company.

DOUGLAS, LOW & CO.,

Johannesburg, 7th March, 1917.

" (Incorporated Accountants), Auditors.

o Expenditure—						By Revenue-			
Salaries, including Expenses of						- Interest	£2,472	5 11	
London Committee and Foreign						Licences-Owner's Half-Share of			
Agencies	£1,055	0	0			Claim Licences	1,203	0 0	8
Audit Fces	31	10	0			Rents	100	0 0	
Licences, Mynpacht Rents and						. -			£3,775 5 1
Quitrents	2,911	5	0			" Balance to Appropriation Account			1,101 17
Paris Responsible Agent's Re-									
muneration	150	0	0						
French Taxes	56	7	9						
General Expenses, Stationery,									
Printing, etc	387	14	7						
On account of investigations re-							_		
lating to proposed subsequent									
development of property	285	5 1	0						
_			- £4,877	7 3	2				
					_	_		-	
			£4,877	7 3	2				£4,877 3

Dr. Appropriation Account for the Year ended 31st December, 1916. Cr. To Balanc —Brought down By Balance at 31st December, 1915 ... £1,101 17 3 £54,435 7 5

., Balance to Balance Sheet 53,333 10 2 £54,435 7 5

£54,435 7 5

RAND COLLIERIES, LIMITED.

(Incorporated in the Transvaal.)

CAPITAL (Authorised and Issued)

£631,250

In 631,250 Shares of £1 each.

Directorate: Sir George Albu, Bart. (Chairman), Leopold Albu (alternate H. W. Dalton), Arthur French. Secretary and Head Office: J. V. Blinkhorn, General Mining Buildings (P.O. Box 1175), Johannesburg. London Committee: J. Freudenthal, F. W. Cham.

THE DIRECTORS REPORT OF

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Friday, the 29th day of June, 1917, at three o'clock in the afternoon, in the Board Room, General Mining Buildings, Johannesburg.

To the Shareholders,

RAND COLLIERIES, LIMITED.

Gentlemen,—Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1916. together with Balance Sheet at that date.

CAPITAL

The issued Capital remains at the same figure as at the date of the previous Annual Report, viz., £631,250 in 631,250 shares of £1 each.

PROPERTY.

The property consists of a portion of the farm Witpoort No. 12 situated in the East Rand district and midway between the mines of the East Rand Proprietary Group and the Van Ryn and New Kleinfontein Companies: The total area over which the Company possesses rights is 5,910 acres, equal to 9.23492 square miles, as follows: follows:

- (a) The freehold of the central portion of the farm (including coal mining rights), in area 2,951½ acres.
- (b) The coal rights of a further portion of the same farm in extent 2,958 acres.

GOLD MINING RIGHTS.

The gold mining rights held by the Company are as under:-

Werf Mynpacht, equivalent to	576·3840
Mynpacht	201.1416
Owners' Claims	6.0000
Vergunning Claims	45.0000

828.5256

Titles have been obtained in respect of the whole of the e claims. Certificate of Owners' Reservation has been granted in respect of two portions of the Property:—

(I) 4 morgen, equival	ent to	5.7600 claims.
(2) 206 morgen 501 sq.	roods, equivalent to	297-8424 claims.
Total		303 6024 claims.

The Company's freehold portion of Witpoort No. 12 has been proclaimed a public digging, but has been reserved from pegging. The portion of the farm to be dealf with by the Government under the Gold Law is equivalent to 1,179 5472 claims.

COAL MINING RIGHTS.

The Coal Mining Rights cover the entire area of 5,910 acres.

FINANCIAL.

For the year under review, the revenue from rents, etc., amounted to £1,590 7s. 1d., whilst on the other hand general expenses at the Mine and Head Office to:alled £2,219 4s. 3d., and interest on advances amounted to £14,654 ls. 9d.

The financial position is as follows:-

Liquid Assets: -

Insurance, etc., paid in advance £57 13 0 Sundry Shares 323 17 6 Sundry Debtors 19 14 9 Stores on Hand 2,953 9 3 Cash on Hand 1,301 17 10			
Deduct—	£4,656	12	4
Current Liabilities:— Sundry Creditors	134	5	6
Excess of Liquid Assets over Liabilities	£4,522	6 1	10

On the other hand there is a liability of £215,010 18s. 8d. to the General Mining and Finance Corporation, Ltd., in respect of advances made by that Corporation.

GENERAL.

The property till remains closed down, and, as pointed out by your Chairman at the annual meeting of shareholders in May last, there appears to be little or no hope of its resuscitation until after the termination of the war.

You will be requisted to elect two Directors in the place of Messis, Leopold Albu and Arthur French, who retire in accordance with the Articles of Association, but are eligible and offer themselves for re election.

AUDITORS.

You will be asked to vote renumeration for the past and t, and are int Audi as for the eastin, your in physical Messas, Frese, My the following who retare, but, being ediplet, offer thems likes for reappointment.

GEORGE ALBU,

Chairman.

Johannesburg, 7th March, 1917.

Rand Collieries, Limited-continued.

Dr.	BALANCE	SHEET	at	31st	DECEMBER	R, 1916.		Cr.
To Capital (Authorised and Is 631,250 Shares of £1 c d as per Balance Sh December, 1915	h, fully paid.	£031.25	0 0 (Property Mine Equipment and Development—	At 31st Dec. 1915. £186,102 4 2	Salva,	At 31st Dec. 1916. £186,102 4 2
Share Premium Account Premium of 20s per Sh. Shares Less Underwriters' Co. Is, per Share	£120,25	2 10 0	7 10 (Permanent Works Machine y and Plan Buildings Mine Development Railway Siding	39,166 8 6 165,188 7 1 17,053 7 5	4	39,166 8 6 165,488 7 1 17,058 7 5
,, General Mining and F poration, Ltd. Advances.	inance Cor- 	215,01	0 18 8	3		£903,718 0 1 Cr.	. £1,850 V	- 0 £901,866 0 1
" Sundry Creditors		-	4 5 6		Add Expenditure of pacht Dues, In Phthisis Compens and Auditors' Fee ary, 1914, to 31st Interest on Advance	asurance, Miners' ation, Secretarial es from 1st Janu December, 1916	£6,940 2 66,025 15	
Contingent Liabilities— Witwatersrand Native Lation, Ltd. 8s. per share uncalled of Native Recruiting Corporation	on 170 shares £6	8 0 0			Less Receipts for Re January, 1907, to 3	ents, etc., from 1st	£72,965 17	8
(Deposit Account)— 13s, 6d, per native unca plement of 5 natives'. Rand Mutual Assurance (376			Coal Prospecting			£958,927 10 5
£4 uncalled on 1 share		5 7 6		.,	Surface Improvemen Live Stock, Vehicle Furniture Stores			925 18 7 10 3 6 102 14 10 2,953 9 3
				•••	Investments— Witwatersrand Nativation, Ltd.— 170 Shares of £1 ed Rand Mutual Assur	ach, 12s. paid up.		.i.e. : -
					Deposit of 6s. allotted complete	Corporation, Ltd.— ch. fully paid, and 6d. each on the ment of 5 natives		<i>::</i>
				,,		e		323 17 6 19 14 9 57 13 0
		-4-1		-	on Hand			1,301 17 10
		£966,3	32 14	2		•		£966,332 14 2

J. V. BLINKHORN, Secretary.

GEORCE ALBU, Chairman.

RAND COLLIERIES, LIMITED.

ARTHUR FRENCH, Director.

We report that we have examined the above Balance Sheet with the Books and Vouchers of the Company, from 1st January to 31st December, 1916, and have obtained all the information and explanation we have required as Auditors. In our opinion, such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs, according to the best of our information and the explanations given to us, and as shown by the Books of the Company. *

To the Shareholders,

EAST RAND PROPRIETARY MINES, LTD.

REPORT OF THE DIRECTORS

For the Year ended 31st December, 1916.

Presented at the Twenty-first Ordinary General Meeting of Shareholders, held in the Board Room, Farrar Buildings, Simmonds Street, Johannesburg, on the 13th June, 1917, at 10.15 a.m.

To the Shareholders,

EAST RAND PROPRIETARY MINES, LIMITED.

Your Directors beg herewith to submit their Report for the year ended 31st December, 1916, together with the Statement of Accounts, duly audied, and the Reports of the Superintending Englace, and the Manager.

PROPERTY,

The Superintending Engineer having reported that 220 Claims situate North of the Reef were no longer or any value to the Company, the board, after outning the necessary sanction of the Trustees to the Debenture Holders, decided to abandon them. A

saving of £567 per annum in hences is thereby effected.

The registration of the 16½ claims sold to the Cinderella Consolidated Gold Mines, Limited, was effected early in 1916, and the pulcasse consideration has been received.

CAPITAL.

There is no change to report in the Registered and Issued Capital of the Company

FINANCIAL.

20,360 19 6 9,255 5 0 49,663 13 17,567 108,160 0 0

£266,151 6 1

Balance of Appropriation Account:—
h and Cash Assets (Stores, Foodstuffs, Sundry Dectors, etc.)

315,169 8 10

£581,323 15 2

Investment of Funds.—The Company recently subscribed \$250,000 in the Imperial War Loan, and also holds Exchequer Bonds to the value of £100,000.

The Board feels confident that their action will be endorsed

The Board feels confident that their action will be endorsed readily by Shareholders.

Devidends,—Although the profit earned for the half-year was sufficient for the payment of a 2½ per cent, dividend, the Board decided that no distribution of profits should take place by reason of the continued disappointing reef values disclosed by development, the large encroachment on the Ore Reserve, and the abnormal inflow of water met with in the Crosscut. In view of these facts and having regard to the D-benture obligations and the moneys required for development when the reef is met with in the subvertical shaft, the Board considered it imperative further to strengthen the financial position of the Company by conserving the current profits pending a decided improvement in the position of the mine.

the mine.

The action of the Board is in pursuance of the policy laid down by the Chairman at the last annual Meeting, when dealing with the question of future dividends.

Special War Levy.—The Government has again imposed a Special War Levy of £500,000 on the profits of Gold Mining Companies. The necessary provision for the estimated amount payable by this Company is made in the Accounts.

Debentures.—During the year the Board purchased at an average cost of £78 68, 5d, per cent, £108,160 of the Company's Debentures being £18,160 in excess of the amount which, in terms of the Debenture Trust Deed, the Company has to redeem annually.

of the Debenture Trust Deco. the Company ally.

Debenture Holders were duly notified that no drawing for the year ended the 28th February, 1917, world take place.

The Debentures outstanding at the 31st December, 1916, were £1,043 (50).

Advances on Native Gold.—The arrangements made with the Bank of England regarding advances on Native Gold, which you were advised of in the last Arnnal Report, have not been mod fied.

Expenditure on Authorised Votes, 1916.—The amount unex-

pended on Votes at 31st December, 1915, was £58,209 and during 1916 Votes aggregating £98,572 were passed, giving a total authorised expenditure of £157.081.

The actual expenditure was £133.455, leaving an unexpended balance of £23,593 to be carried forward to 1917.

EXPENDITURE FOR 1917.

The Superintending Engineer estimates that in addition to the unexpended balance brought forward from last year, the sum of £94.898 will be required to meet the programme for 1917.

The principal items of expenditure are detailed in his report.

MINE DEVELOPMENT SUSPENSE ACCOUNT. The total amount to the credit of this Account at December 31, 1916, was £357,566, an increase of £29.287 over the figure of the previous year.

OPERATIONS, 1916.

The particulars of the results of last year's operations, the development accomplished and the Ore Reserves and values, are dealt with in the annexed reports of the Superintending Engineer and the Manager, to which you are referred.

Your special attention is directed to the remarks of the Superintending Engineer under the heading of the "Sub-Vertical Shaft Scheme." You will note that very satisfactory progress was made with the scheme until the inflow of water met with on the 27th level cross-cut, stopped all work. With a view to avoiding, if possible, the delay in, as also the neary cost of, installing further pumping plant to deal with the additional water, arrangements have been concluded, in England, with Mons. Francois, the inventor of the "Cementation Proces," to proceed to the mine with as little delay as possible, in order to endeavour, by means of his process, to seal up the water-conveying crevices and fissures. Should he be successful, then development operations and shaft sinking will be greatly accelerated—matters of vital importance.

MINERS' PHTHISIS.

The Company's proportion of the assessment in respect to the Miners' Phthisis Compensation Fund for the year was £17.282, and of the Insurance Fund £15.553, bringing the total amounts paid to date to £105.139 and £47.852 respectively.

EMPLOYEES ON ACTIVE SERVICE.

The Company at 31st December, 1916, had 304 employees on Active Service, of whom 108 are with the Overseas Contingent, and 196 with the German East African Expeditionary Force.

The allowances paid to the men and their dependents during 1916 amounted to £22,917.

It is with regret that the Board has to report that 27 employees have been killed in action. Profound sympathy is extended to their relatives.

playees have been killed in action. Profound sympathy is extended to their relatives.

EUROPEAN COMMITTEE.

The Board has to record, with extreme regret, the death of Sir Sigmund Neumann, who was a member of the European Committee since it was established.

The vacancy on the Committee created by the death of Mons. J. Jacquot was filled by the appointment of Mons. Georges Rouliot, for a number of years a Director of the Company.

DIFFECTIONATE

DIRECTORATE.

In terms of the Articles of Association, Sir II, Ross Skinner, Mr. Julius Friedlander, and Mr. Jules Jourdan retire from the Bard, but, being eligible, they offer themselves for re-election, During the year, Mr. Gust iv Inroth resigned his seat on the loand. His resignation was accepted with regret.

AUDITORS,
You will be requested to fix the remuneration of the retiring Additors, Messes, C. L. Andersson & Co., and A. E. Page for the p.s. audit, and to appoint A ditors for the ensuing year

E. A. WYLLERS, Chairman, F. C. DUMAT, G. C. FITZPATRICK, W. J. GAU.
A. G. GILL.

JOURDAN

RALEIGH

RENAUD.

Directors

H P. FRASER, Secretary.

Johannesburg, February, 1917.

£527,052 0

East Rand Proprietary Mines, Limited—continued.

Dr.	BALANCE	SHEET,	31st	DECEMBER, 1916.	Cr.
1.6 Capital Account— Registered 2,514,000 shares 6	£2,514,000 0 0		Ву	Property, Equipment and Development— As per Balance Sheet, 31st December, 1915	
Issued 2,445,697 shares o					
£1 each		2,445,897 0	0	3,796,120 3 4 Less amounts written off as per Appropriation Account 175,390 13 4	
, 5 per cent. First Mortgage De bentures	. 1,500,000 0 0				23,620,729 10 23,620,729 10
Government of the Union of S.A. "Annuity Account"— For total amount payable (in twelve annual instalments of £11,557 each) as consideration for grant of Undermning Rights Less amount paid to 3rd July 1916, and proportion provides for balance of year ended 31s December, 1916	210,804 0 0	1,043,080 0 131,752 10		Shares in Other Companies— Witwatersrand Native Lahour Association, Ltd., 3,839 shares of £1 each, 12s. paid, at cost Rand Mutual Assurance Co., Ltd., 840 shares of £10 each, £6 paid, at cost Konomax Rock Drill Syndicate, Ltd., 750 shares of £1 each, fully paid Witwatersrand Co-operative Smelting Works, Ltd., 5,623 shares of £1 each, 8s. paid, at cost 2,303 8	0
	£	3,620,729 10	-	Native Recruiting Corporation, Ltd., 162 shares of £1 each, fully	
, Sharcholders— Unclaumed Dividends Debenture Holders— Debenture Interest, Coupon No. 12 £26,159 5 C Unclaimed Interest 3,675 1 2	41,490 15 2	Îl	25.1	paid, at cost	0 - 9.759 12 158,089 11 11,841 5 1.200 0 50,188 15 3,234 13
, Creditors and Credit Balances— Open Amounts £144,730 18 6 Government	5		,,	Cash and Gold in Transit— Exchequer Bonds, with Interest accrued to date 102,916 13	
Taxes 28,462 16 11	173,193 15 5	244,518 16	0	British Treasury Bills, with Interest accrued to date 127,145 14 2 Union Government of S.A. 5 per	2
, Mine Development Suspense Balance of Appropriation Accoun		357,565 12 3 315,169 8 1	0	cent. Local Reg. Stock, with interest accrued to date 4,418 6	8
OTE.—There are Contingent Lia' ties in respect of:—	bili.			On Fixed Deposit, London and Paris 344,000 0 On Current Accounts, London and	0
3,839 Witwatersrand Native Lab Association, Ltd., shares, per share uncalled	8s. £1,535 12 0			Johannesburg 36.475 15 10 Gold in Transit 67.983 11 0	
5.623 Witwatersrand Co - operations Smelting Works, Ltd., sha 12s. per share uncalled 840 Rand Mutual Assurance C	res, 3,373 16 0				000,010
pany, Ltd., shares, £4 share uncalled	per				
Native Recruiting Corporation, L. Deposit Account, 13s, 6d.	td., per				
unit of complement uncalled	£20.696 16 6				
	220.030 10 0		-		
	£4	,537,983 8 8	5	£.	4,537,983 8 5
Or. Working Revenue &	& Expenditu	re Accou	nt fo	r the Year ended 31st December,	1916. Cr.
Mining Expenses				Gold £2	2,365,107 14 8
Mine Development		233.306 5 6 380.838 5 11 119,742 5 6	1		
Credit Balance carried down		,867,943 3 (497,164 11 3	3	7	
Other Ferrandite		,365,107 14	3	£2 ==	2,365,107 14 8
Other Expenditure on Account of Authorised Votes	. £66.975 2 11 . 1.972 18 9 . 53,385 10 0			Balance brought down	£497.164 11 3 29,887 8 10
War Leave	. 22,916 18 8	162,532 3 11			
Credit Balance carried to Appro priation Account		364,519 16 2	2		
	_				

364,519 16 2 £527,052 0 1

East Rand Proprietary Mines, Limited—continued.

Dr.	APPROPRIATION ACCOUNT.	Cr.
To Dividend Account— Dividend No. 22 of 2½ per cer June, 1916	£61,147 8 6 ,, Balance of Working Expenditure a Account brought down , Difference between Nominal Value Debentures Purchased £1 And Cost thereof £1 And Cost thereof £1 49,663 13 4 17,567 0 0 108,160 0 0	and Revenue 364,519 16 : of— 108,160 0 0
,, Balance Unappropriated carried to Balance Sheet		
•	£581,323 15 2	£581,323 15

H. P. FRASER, Secretary, O. C. MEREDITH, Acting Chief Accountant.

E. A. WALLERS, Chairman, E. RENAUD, Director,

To the Shareholders,
EAST RAND PROPRIETARY MINES, LTD.

We have audited the Balance Sheet of the East Rand Proprietary Mines, Ltd., dated the 31st day of December, 1916, above set forth, and have obtained all the information and explanations we have required. In our opinion such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs according to the best of our information and the explanations given us, and as shown by the books of the Company, with which are incorporated the audited returns received from the London Office.

ANDERSSON & CO. Incorporated Accountants,

A. E. PAGE,

Incorporated Accountant,

Johannesburg, 28th February, 1917.

SACKE ESTATES AND MINING COMPANY,

(Incorporated in the Transvaal.)

Directorate: Sir George Albu, Bart (Chairman), Arthur French, H. W. Dalton, Secretary and Head Office, J. V. B'inkhern, General Mining Buildings (P.O. Box 1173), Johannesburg, London Committee: J. Freudenthal, F. W. Lunau, Robert Whyte, London Secretary and Office: T. Frederick Thorne, 63/4, Winchester House, Old Broad Street, E.C.2. Paris Agents and Office: General Mining and Finance Corporation, Ltd., 29, Ruc Taitbout, Paris.

REPORT OF THE DIRECTORS

For the Year ended 31st December, 1916.

Submitted to the Shareholders at the Ordinary General Meeting, held on Friday, the 29th day of June, 1917, at four o'clock in the afternoon, in the Board Room, General Mining Buildings, Johannesburg.

To the Shareholders,

SACKE ESTATES AND MINING CO., LTD.,

Gentlemen,-Your Directors beg to submit their Report on the affairs of the Company for the year ended 31st December, 1916, together with the Balance Sheet and Profit and Loss Account at that date. The Auditors' Report is appended.

CAPITAL

The Capital remains at £250,000, in shares of £1 each, of which 225,000 shares are issued and fully paid up, and 25,000 are held in reserve.

PROPERTY.

The Properties owned consist of the following:—
(a) One-balf undivided interest in the freehold portion of the farm Middelylei No. 6, in the district of Krugersdorp, which portion is known as Buitenfontein, and is 737 morgen 302 square roods in

(b) An eighth undivided interest in the Wisbeach-Swaziland

(c) A three-fourths undivided interest in a piece of freehold land, situated at Hout Bay, in the Cape Division, being part of the divided estate Kronendale, 18 morgen 50 square roods in extent.

FINANCIAL.

The revenue for the past year amounted to £3,092 16s., and expenditure to £1,115 7s. 2d., leaving a profit of £1,977 8s. 10d.

Cash on Fixed Deposit, with Accrued Interest, and Current Account, etc. £40,623 14 1 Sundry Deltors 495 11 11 Payments made in advance 6 5 6 195 11 11 6 5 0

Shares and Debentures in various Com panies (valued at or under Stock Exchange closing prices at 31st December, 1916)

25,770 3 11 - £65...35 11 9

Liabilities.

Sundry Creditors

455 B 9 £66,440 6 U

Excess of Liquid Assets over Liabilities

DIRECTORS.

You will be asked to elect two Directors in place of Mosts Arthur French and H. W. Dalton, who retire, but are eligible and offer themselves for re-election.

AUDITORS

You will be asked to vote remune ation for the past andit and to appoint Auditors for the ensuing year in place of Mr. A Eckart-Beckmann and Messrs. Douglas, Low and Co., who retire, but, being eligible, offer themselves for re-appointment.

GEORGE ALBU, Chairman

Johannesburg, 7th March, 1917

Sacke Estates and Mining Company, Limited.—continued.

BALANCE SHEET AT 31st DECEMBER, 1916. Dr.

Cr.

	and the second s
To Capital — As per Balance Sheet at Decem ber 31st, 1915:— 250,000 Shares of £1 each £250,000 0 0 Less 25,000 Shares in Reserve 25,000 0 0 £225,000 0 0 455 8 9	By Properties— As per Balanco Sheet at December 31st, 1915
	Add Interest accrued to date 9 9 10 With Bankers on Current Account and on Hand 1,391 8 8
	,, Profit and Loss Account 40,623 14 10
£225,455 8 9	£225,455 8 9

GEORGE ALBU, Chairman.

ARTHUR FRENCH, Director.

J V. BLINKHORN, Secretary.

To the Shareholders,

SACKE ESTATES AND MINING CO., LTD.

We report that we have examined the above Balance Sheet and accompanying Profit and Loss Account with the Books and Vouchers of the Company in Johannesburg, from 1st January to 31st December, 1916, and with the Accounts received from London, and have obtained all the information and explanations we have required as Auditors. In our opinion such Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Company's affairs according to the best of our information and the explanations given to us, and as shown by the Books of the Company.

DOUGLAS, LOW & CO.,

A. ECKART-BECKMANN,

(Incorporated Accountants), Auditors.

Johannesburg, 9th March, 1917.

Profit and Loss Account for the Year ended 31st December, 1916. Cr. Dr.

To Expenditure— Salaries Anditors' Fees	£360 0 21 0 20 0 32 15 20 1 477 13	0 0 8 2 4	By Revenue— Interest, Commissions, etc. (less Income Tax) Rents 477 0	
Balance carried down		1,977 8 10		
		£3,092 16 0		£3,092 16 0
To Balance at 31st December, 1915 Depreciation on Investments		£102,498 4 6 665 12 6	By Balance brought down ,, Balance to Balance Sheet	£1,977 8 10 101,186 8 2
		£103,163 17 0		£103,163 17 0

The Simmer & Jack Proprietary Mines,

(Incorporated in the Transvaal.)

NOTICE TO SHAREHOLDERS.

NOTICE IS HEREBY GIVEN that the Nineteenth Ordinary General Meeting of Shareholders in the above Company will be held in the Board Room, Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg, on Friday, the 28th September, 1917, at 2.30 o'clock in the foreneon, for the following purposes:—

- 1. To receive and consider the Reports of the Directors and Auditors, the Balance Sheet as at 30th June, 1917, and Statement of Income and Expenditure for the year ended 30th June, 1917 June, 1917.
- To elect two Directors in the places of Mesers. D. Christopherson and F. Leslie Brown, who retire by rotation, but are eligible and offer themselves for re-election.
- To appoint Auditors for the current year, and to fix the re-muneration for the past year's audit.
- 4. T_0 transact such other business as may be transacted at an Ordinary General Meeting.

The Transfer Books of the Company will be closed from 21st to 28th September, 1917, both days inclusive.
Holders of Share Warrants to Bearer intending to vote at this Meeting must comply with the regulations concerning the issue of Share Warrants.

By Order of the Board,

The Consolidated Gold Fields of South Africa, Ltd., Secretaries.

Per A. C. GRANT.

Head Office: Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg, 2nd July, 1917.

The Simmer and Jack Proprietary Mines, Limited.

(Incorporated in the Transvaal.)

Declaration of Interim Dividend No. 30.

NOTICE IS HEREBY GIVEN that an Interim Dividend of 3\(^3\) per cent. (Ninepence per Share), amounting to £112,500, has been declared for the six months ending 30th June, 1917, being at the rate of 7\(^1\) per cent. per annum, payable on or about 15th August, 1917, to Shareholders registered in the Company's Books on 6th July, 1917.

The Transfer Books of the Company will be closed from 7th to 14th July, 1917, both days inclusive.

The Dividend will be payable to Shareholders on the South African Register by warrants to be issued from the Head Office of the Company in Johannesburg, and to Shareholders on the London Register by warrants to be issued from the London Office of the Company.

Holders of Share Warrants to Bearer are informed that they will receive payment of the Dividend on presentation of Coupon No. 30, either at the Offices of the African Banking Corporation, Ltd., 63, London Wall, London, E.C., or at the Offices of The Consolidated Gold Fields of South Africa, Ltd., at 12, Rue des Pyramides (being the Paris Agents of the Company). Coupons will be payable at any time on or after 15th August, 1917, and must be left for examination at either of the foregoing addresses at least four clear days prior to payment being made.

By Order of the Board,

The Consolidated Gold Fields of South Africa, Ltd., Secretaries.

Per A. C. GRANT.

Head Office: Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg, 28th June, 1917.

Robinson Deep, Limited.

(Incorporated in the Transvaal.)

DECLARATION OF DIVIDEND No. 3

("A" SHARES.)

NOTICE IS HEREBY GIVEN that Dividend No. 3, on "A" Shares, of 4s. (Four Shillings) per Share, amounting to £100,000, has been declared for the six months ending 30th June, 1917, payable on or about 30th August, 1917, to Shareholders of "A" Shares registered on the 6th July, 1917.

The Transfer Books of the Company will be closed from 7th to 14th July, 1917, both days inclusive.

The Dividend will be payable to Shareholders on the South African Register by warrants to be issued from the Head Office of the Company in Johannesburg, and to Shareholders on the London Register by warrants to be issued from the London Office of the Company in Johannesburg, and to Shareholders on the London Register by warrants to be issued from the London Office of the Company.

Holders of Share Warrants to Bearer are informed that they will receive payment of the Dividend on presentation of Coupon No 3, either at the Offices of the African Banking Corporation, Ltd., 63, London Wall, London, E.C., or at the Offices of The Consolidated Gold Fields of South Africa, Ltd., at 12, Rue des Pyramides (being the Paris Agents of the Company). Coupons will be payable at any time on or after 30th August, 1917, and must be left for examination at either of the foregoing addresses at least four clear days prior to payment being made.

By Order of the Board,

The Consolidated Gold Flelds of South Africa, Ltd., Secretaries

Per A. C. GRANT.

Head Office: Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg, 28th June, 1917.

The Sub Nigel, Limited.

(Incorporated in the Transvaal.)

NOTICE TO SHAREHOLDERS.

NOTICE IS HEREBY GIVEN that the Nineteenth Ordinary General Meeting of Shareholders in the above Company will be held in the Board Room, Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg, on Friday, the 28th September, 1917 at 10,45 o'clock in the forenoon, for the following purposes :-

- To receive the Reports of the Directors and Auditors, and to consider the Balance Sheet as at 30th June, 1917, and State-ment of Income and Expenditure for the year ended 30th June, 1917.
- To elect two Directors in the places of Messrs. J. H. Leslio and C. Hely-Hutchinson, who retire by rotation, but are eligible and offer themselves for re-election.
- To elect Auditors for the current year, and to fix the re muneration for the past year's audit.
- 4. To transact such other business as may be transacted at an Ordinary General Meeting.

The Transfer Books of the Company will be closed from 21st to 28th September, 1917, both days inclusive

By Order of the Board.

The Consolidated Gold Fields of South Africa, Ltd., Secretaries

Per A. C. GRANT.

Head Office: Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg. 2nd July, 1917.

The Knights Deep, Limited.

(Incorporated in the Transvaal.)

Declaration of Interim Dividend No. 24.

NOTICE 18 HEREBY GIVEN that an Interim Dividend of 5 per cent. (One Shilling per Share), amounting to £37,176 fs., has been declared for the six months ending 30th June, 1917, being at the rate of 10 per cent. per annum, payable on or about 27th July, 1917, to Sharcholders registered in the Books of the Company on 6th July, 1917.

The Transfer Books of the Company will be closed from 7th to 14th July, 1917, both days inclusive.

The Dividend will be payable to Shareholders on the South African Register by warrants to be issued from the Head Office of the Company in Johannesburg, and to Shareholders on the London Register by warrants to be issued from the London Office of the Company.

By Order of the Board,

The Consolidated Gold Fields of South Africa, Ltd., Secretaries.

Per A. C. GRANT.

Head Office: Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg, 28th June, 1917.

The Jupiter Gold Mining Company

(Incorporated in the Transvaal.

Declaration of Interim Dividend No. 6.

NOTICE 18 HEREBY GIVEN that an Interim Dividend of 3½ per cent. (Ninepence per Share), amounting to £38,032 10s., has been declared for the six months ending 30th June, 1917, being at the rate of 7½ per cent. per amoun, payable on or about 27th July, 1917, to Shareholders registered in the Company's Books on 6th July, 1917.

The Transfer Books of the Company will be closed from 7th to 14th July, 1917, both days inclusive.

The Dividend will be payable to Shareholders on the South African Register by warrants to be issued from the Head Office of the Company in Johannesburg, and to Shareholders on the London Register by warrants to be issued from the London Office of the Company.

By Order of the Board,

The Consolidated Gold Fields of South Africa, Ltd., Secretaries.

Per A. C. GRANT.

Head Office: Consolidated Gold Fields Buildings, Simmonds Street, Johannesburg, 28th June, 1917.

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Vol. XXVI., PART II. No. 1345.

THE SOUTH AFRICAN MINING JOURNAL, JULY 7, 1917.

[WEEKLY, PRICE 6D.

W. L. SAUNDERS, Chairman of Board.

F. A. BRAINERD, Sec.

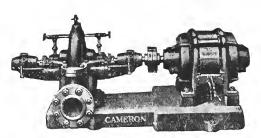
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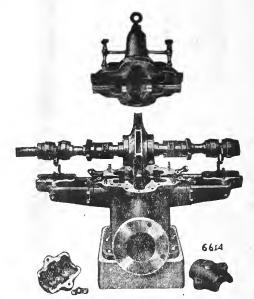
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